### HARRIS COUNTY ARCHIVES

### **Document Separation Sheet**

The following material has be	en removed from:	L	Box: Folder: ocation:	
Description of materials: Accession No:	2008.027		Date:	1966-1973
Reason for removal:				
Closed - Medical Record	s and Personal Photog	raphs ML 73-34	413 Billy	/ Gene Baulch, Jr.
New Location:				
Box: 1484				
Folder: 15				
Location:				
Notes:				
Make 2 copies: place one in new local one in original location.	tion with transferred materials,	Date:	7/	21/2010
one in original roodsom		Signed:	prolis	You

ARCHIVES FORM 299-015 NOVEMBER 2003)

### 1973 MASS MURDER INVENTORY CASES TO DATE AS OF 071501

DR. DELATTRE VIEWED CASE:	_ CASE FINDINGSSEE A	TTACHED KEPOKT DATED
ITEM# CASE# DECEDENT'S NAME	TYPE OF LOCATION	
Qu) 13-3413 Billy Wm-	REMAINS REMAINS	FOUND WHAT METHOD 8-13-13 See 10-8-73
Body#5 Gine	acto	by High Supplement
Grave#4 Bauch, JR	Kepo	+ 15land lentals
FOUND@: (Manbers Co.	,	gracesite
NOK NOTIFIED: (V)/ N DATE /TIME NOTIFIED: 10-8-73 Dad	NOTIFIED BY WHO	DM: Dr Jachimzyk
	19 14 2	/
AUTOPSY DONE BY/DATE: Dr. Jach im	CZUK 8-15-73	
INVESTIGATOR REPORT: (Y) N AUTOPSY RE	PORT: Y/N POLICE R	EPORT: Y/N/SCENE PHOTOS: Y/N
DEATH CERTIFICATE: Y / N DATE D/C SIG	GNED: 7/0+ Infile	
Not in file		
FULL BODY XRAYS: Y/N DENTAL CHAR'S BOWY YRAYS	// 1	Y/N RELEASE SIGNED: Y/N DATE: //O+//
	noms autopsy	tile BY: tile
TRANSFERRED TO HCME BYAM UPO BY: Serling F.H. Dauton TV	yt ,	
FUNERAL HOME: Heights	BURIED	.´CREMATED´
MANNER OF PSPHYXIA due to	Strangulation	DOD: 5-21-72
200200	Higator File	
OTHER INFORMATION: S.P. Order in file	dated 8-13-73	
See 10-11-73 Supplement Ke:	Skeletal Parks	NO property
Comp. Cares 13-3365, 3366,	3408,3409,3412	, ,

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	EST. AGE:	
		OTHER:
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<u>.</u>	WEIGHT:	CLOTHING: Nude
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CAN	DECEDENT'S NAME: DECEDENT'S ADDRESS: NEXT OF KIN:	
CAN	DECEDENT'S NAME:  DECEDENT'S ADDRESS:  NEXT OF KIN:  ADDRESS:	
BODY CAN BE	DECEDENT'S NAME:  DECEDENT'S ADDRESS:  NEXT OF KIN:  ADDRESS:  IDENTIFIED BY:	

(13) 9-27-73 MPD Chemist & Deficologist, games a.

Botter rec'd head & pulsic hair from dec.

also rec'd. Samples of both types of coud

that was recovered.

Autopsy

INVESTIGATOR'S REPORT

Investigator: L. C. Kelly

XXXXXX

Case No. 73 - 3333

Decedent: Michael Anthony Baulch Race W Sex M Age 15

439 West 16th Street, Houston, Texas

FOUND August 8, 1973

Approx. Time

8:00

XMXXXX

P.M.

Place of Death: 4500 Silverbell Street, Stall #11, Houston, Texas

Place of Inquest: 4500 Silverbell Street, Stall #11, Houston, Texas

Date and Time of Inquest: August 8, 1973

8:45

Location, Position, and Surroundings of Body:

The decedent was lying in grave #1, wrapped in plastic, lying on the left side under Unknown #1.

Clothing: There was no clothing.

Information:

This is a related case to Medicolegal 73-3329.

(See Companion Cases 73-3332, 73-3334, 73-3335, 73-3336, 73-3337, 73-3338, 73-3339, 73-3347, 73-3348, 73-3349, 73-3350, 73-3353, 73-3354, 73-3355, 73-3356 and 73-3357)

Property: There was no property.

Transferred to Morgue by: Bob Lee Funeral Home, Houston, Texas

Funeral Home Conducting Service: Heights Funeral Home, Houston, Texas

LOCATION: 45 00 Silverbell	# //
LOCATION: 45 00 Silverbell UNKNOWN # 2	GRAVE # <u>7</u> M.E. CASE # 73 - 3333
IDENTIFIED NAME: Michael	anthony Baulch
STILL UNKNOWN	$\sigma$
INVENTORY	SHEET
HAIR SAMPLES:	AUTOPSY REPORT: ROUGH FINAL
BODY X-RAYS: HCME lo OTHER	SUPPLEMENTAL: ROUGH FINAL
DENTAL X-RAYS: HCMEOTHER	INVESTIGATORS REPORT: ROUGH FINAL
HCME PHOTOS: BODY PERSONAL EFFECTS	SUPPLEMENTAL: ROUGH FINAL
CLOTHINGDENTAL	TOXICOLOGY REPORT
PHOTO FROM FAMILY:	DENTAL EXAMINATION: ROUGH FINAL FORM
MISSING PERSONS REPORT	POINTS OF COMPARISON: ROUGH FINAL FORM
DEATH CERTIFICATE	HCME DENTAL CHART
BRIEF PHYSICAL DESCRIPTION	OTHER DENTAL CHART
SYNOPSIS OF MEDICAL TESTIMONY:	EVIDENCE SHEET:
CORRESPONDENCE:	
COMPARISONS:	
OTHER:	

STATE OF OHIO HP-24C Rev. 8/70

Signature of the examiner

# STATE HIGHWAY PATROL DENTAL CHART

Fill out all information in PENCIL

**************************************	Division Case Humber
Assigned identification number  73-3333 # Z Autopsy number	
Autopsy number	Picture Pouch Number
Armed Forces Serial Number	\$/10/75 Date of Exam.
Social Security Number	
IDENTIFICATION STA UNIDENTIFIED AT PRESENT TIME, PRESUMPTIVE BY EXC	
Name of Person Identified Age	Page Com
The above block is to be completed after all I.I	Race Sex D. Procedures are exhausted.
CONFIRMED IDENTIFICATION OF BODY BY Name of Examiner	
Confirmed identification by means of (circle) X-ray compari	son, Clinical conformation by previous dental
records, Other	
X-rays taken (circle one) Mone, Complete Mouth, Bite Wings, Photographs taken (circle one) None, Color, Black & White,	
Name, Address, and Telephone Number of Photographer	
	•
Location of the Body	
Position of the Body	
BEFORE PROCEEDING-READ PAGE 2 CAREF	ULLY AND FOLLOW ALL
INSTRUCTIONS-HAVE A QUALIFIED ASSIST	
RECORD ALL INFORMATION	IN PENCIL
Name, Address, and Telephone Number of the Examiner	
Name, Address, and Telephone Number of the Assistant	

Signature of the Assistant

MARK ALL EXISTING RESTORATIONS AND MISSING TEETH ON THIS CHART

		Estimated Age
	ommon Man Man and	Sex_ Race
	MUNICIPALITATION	Circle descriptive term
		Prosthetic Appliances Present —— Maxilla
		Full Denture
	± 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 7 7 2 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 7	Partial Denture Fixed Bridge
		Prosthetic Appliances Present —— Mandible
	WINTIMMINIMINIMINIMINIMINIMINIMINIMINIMIN	Full Denture
		Partial Denture
	Describe completely all Prosthetic Appliances or	Fixed Bridge
	Fixed Bridges # 9 CHIPPED INCISAL # 8 VERTICAL CRACK	Stains on teath
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		Gross Neglect
		Calculus
r	ADDOORDOOM TO THE	Slight
in	acted	Moderate
	mmm 1 1 Dagga 1 1 1 mmm	Severe

### OFFENSE REPORT

PAGE NO. (	ME	HOUSTON P	OLICE DEF	PARTMEN	T SE	R. No. D-68	920
LOCATION	4500 BELVER	BELL				11	<i>F</i>
OFFENSE	MURDER			CHANGED TO		2'3	23.3
COMPLAINANT	MICHAEL AN	THONY BAULCH	ADDRESS	439 W.	16th	PHON	1E862-8344
SEX-RACE-AGE	W 15					•	
REPORTED BY	ELMER WAYNE	HENLEY WM-17	ADDRESS	325 W.27	'th	PHON	NE .
TYPE PREMISES	RENTAL STO	RAGE GARAGE					
TIME OCCURRE	D						
TIME RECEIVED	2:30PH WED	AVG. 8, 197	73 BY	DET. D.F	. Jane:	HOW	PHONE
.HOW-MEANS	OBJECT	TRD. MK.	DE	ESCR.	CLEARED	)	DATE
DISTRIBUTION	1 CASH 2 J	EWELRY 3 BICYCLES	4 CLOTHING	5 MOTOR VEHICLE 6	MISCELLANEOUS	7 FURS	TOTAL
LOSS							
RECOVERY-DTL.			TE DEDCOME ADDECT	ED DECEMBER			
	(DE	TAILS OF OFFENSE-SUSPEC	12-LEK2OM2 VKKE21	ED-PKOPEKIT)			

NOTE:

THIS WILL BE A COMPANION CASE TO D-68904, WHICH WILL CONTAIN ALL DETAILS OF THIS OFFENSE. OTHER COMPANION CASES WILL BE D-68905 THROUGH D-68911 and CASES D-68915 THROUGH D-68923.

### INTRODUCTION:

This complainant was found in a grave in a rental storage garage at the above location on 8-9-73. THE identity of this complainant is unknown at this time. For Details known at this time see case D-6890h.

IDENTIFICATION OF COMPL. 10-9-73

DR. Jachimeyzk called this date and stated that he had made ID of this Compl. as BODY #2 from the boat shed. The cause of death was by two gunshot wounds at close range to the head.

**OFFICERS** 

D.R. JAMES D-547

17 L.L. BARLS D-576 N. NETIMAN (DO NOT TYPE BELOW THE SOLID LINE OR LIST PROPERTY ACROSS THE DOTTED LINE.)

**EDITED** 

CHANGED

INDEXED

BULLETIN

**PUNCHED** 

JOSEPH A. JACHIMCZYK, M.D., J.D.

FORENSIC PATHOLOGIST

ATTORNEY AT LAW

CHIEF MEDICAL EXAMINER



228-8311 Ext. 671 (Day) Ext. 212 (Night)

## OFFICE OF THE MEDICAL EXAMINER OF HARRIS COUNTY

HARRIS COUNTY COURT HOUSE HOUSTON, TEXAS 77002

September 27, 1973

This date, September 27, 1973, James A. Zotter, Chemist and Toxicologist, Houston Police Department, received head hair and pubic hair from Case 73 - 3329, Dean Arnold Corll, hair samples (head) from Cases 73 - 3333, 73 - 3334 and 73 - 3335, and samples of both types of cord which was recovered.

James A. Zotter

Joseph A. Jachimczyk, M.D., J.D.

Chief Medical Examiner

1973 MASS MURDER INVENTORY CASES TO DATE AS OF 071501

DR. DELATTRE VIE	WED CASE:	CASE FINI	DINGSSEE ATTA	CHED REPO	RT DATED
ITEM# CASE#	DECEDENT'S NAME	TYPE OF	LOCATION OF	DATE	DATE ID'D & BY
(2)73.3333	Michael	REMAINS	REMAINS	FOUND	WHAT METHOD
$(\frac{2}{10}, \frac{2}{10}, 2$	Anthony	- 4/	See V	8-8-73	10-9-73
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FOUND@: 4500		11#11.	report	Nude	P 10 Made by Viewing denta
NOK NOTIFIED (Y)	IN Evave	#1 ,		1400	Gotning, photo
DATE /TIME NOTIF		- (N/A) NOTI	FIED BY WHOM:	See 1019	13 Con
				Supplem	
AUTOPSY DONE BY			9-73		
INVESTIGATOR RE		REPORT:(Y)/ N			CENE PHOTOS: Y/N
DEATH CERTIFICA	ATE:(Y)/N DATE D/C	SIGNED: 10-17	-73- Billuí	Bauch,	Sr Dad
FULL BODY XRAYS		ART/XRAYS: Y /	(N) DNA: $(Y)/N$	N REI	LEASE SIGNED: Y/N)
@ autopsy		By Exam Do			TE: NOT IN FIRE
Sheltal remai	7- 71	. Stimson	Head/Pubic	Hair BY	•
TRANSFERRED TO	HCME		·		
FUNERAL HOME:	Heights	DI	IDIED MOSCHOL	ODEM	· ·
MANNER OF	110101110	В	uried Wood lau Garaen of n	nemories	ATED
DEATH:	3W (3) Of head		cara a roj	DOD:	1 21 -21
11000	0				report
SOURCE: HUNE	Kecords Dept	+ Inve	estigator Fi	le	1-2011
OTHER	10 01011-	1			
INFORMATION: $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	10 Clothing, others	nan loett	buckle		
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### AFFIDAVIT OF HEIRSHIP

I, DANNY WAYNE BAULCH, hereby attest that the following is a true and correct representation of the line of heirship for my parents, BILLY GENE BAULCH, SR. AND MAGGIE JANE BAULCH, deceased.

During their marriage, BILLY AND MAGGIE had seven (7) children. Neither of them had any other children by any other marriage or union. Nor did they adopt any children, or take any children into their home with the understanding of adoption. Their children are listed below:

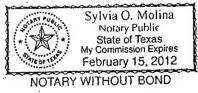
- 1. Marvin Lee Baulch, deceased
- 2. Billy Gene Baulch, Jr., deceased
- 3. Michael Anthony Baulch, deceased
- 4. Robert Cliffon Baulch, deceased
- 5. Patricia Darlene Baulch Horacek
- 6. Debra Sue Baulch Hernandez
- 7. Danny Wayne Baulch

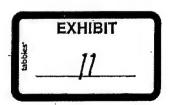
Executed this 28 day of 50pt. 2010.	Total
Danny Wayne Baulch	Bauld
Danny Wayne Baulch	
* * * *	

State of Allas
County of Andries

Before me, the undersigned authority, on this day personally appeared <u>DANNY WAYNE BAULCH</u>, known to me to be the person whose name is subscribed hereto, and who, upon his oath, did attest to the foregoing statements. Subscribed and sworn to before me on this <u>A8</u> day of <u>Supt</u>.

Notary Public, State of Texas
My Commission Expires: 02-15-2012







Funeral Home, Inc.
Garden of Memories Cemetery, Inc.
Pre-Planned Funeral Services, Inc.

November 4, 2010

Dr. Sharon N. Derrick (HCIFS) 1885 Old Spanish Trail Road Houston, TX 77054-2001

Dear Ms. Derrick:

Billy Gene Baulch, Jr. and Michael Anthony Baulch were interred into Space 8, Lot 171, Block 2 in Woodlawn Garden of Memories Cemetery on October 12, 1973.

The owner of the property described above is, B.G. Baulch.

Please call upon us if we may be of further assistance.

Sincerely.

WOODLAWN GARDEN OF MEMORIES, INC.

Jessica Öquendo Office Manager

JO/ef

**Enclosures** 

EXHIBIT

RAIIICH JR RILLY GENE

DOD: 8/8/1973

WM - (18Y 4M)

ML 73-3413

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REPLACES QMC FORM 1044, 18 MAR 47, WHICH IS OBSOLETE.

### HARRIS COUNTY INSTITUTE OF FORENSIC SCIENCES 1885 OLD SPANISH TRAIL HOUSTON, TEXAS 77054-2001

Sharon M. Derrick, Ph.D. Forensic Anthropologist

ML73-3413

### REPORT OF ANTHROPOLOGY CONSULTATION

CASE NUMBER:

ML73-3413 (formerly IO11-00556)

NAME:

Billy Gene Baulch, Jr.

PATHOLOGIST:

Joseph A. Jachimczyk, MD, G. Sheldon Green, MD and

Dwayne A. Wolf, MD, PhD

DATE (analyzed): March 11-14, 2011

On February 10, 2011, Dr. Wolf, Deputy Chief Medical Examiner, requested a skeletal profile and trauma analysis review of the skeletal remains of ML73–3413 (IO11–00556). The remains were exhumed from Woodlawn Cemetery, 1101 Antoine Drive, Houston, Texas under Order Number 2010–83010 from Harris County District Court 151. The exhumation was performed on February 8, 2011 to examine ML73–3333 and ML73–3413 for collection of anthropological and DNA data. See the original autopsy reports for ML73–3333 and ML73–3413 included in the current case files and the <u>Case Background</u> section below for detailed information on these cases. Two discrete body bags containing skeletal remains were recovered from within a single casket. The remains were immediately transferred to the HCIFS Morgue, received through the check–in process, and placed in the Anthropology Laboratory. Although the remains were believed to be those of ML73–3333 and ML73–3413, the cases were assigned inquest numbers (IO11–00555 and IO11–00556, respectively) at check–in.

As a result of the shallow water table geology of the Houston area, the two body bags were submerged in muddy water within the casket. The water had leaked through the zippers, resulting in waterlogged and softened skeletal elements. Further, mineral deposits had precipitated from the water to coat the majority of the bone surfaces. The elements of each set of remains were washed individually in cool water, reconstructed, ordered, and placed in anatomical position on an examination table to dry.

Billy Gene Baulch, Jr.
Report of Anthropology Consultation
ML73-3413
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IO11-00555 and IO11-00556 were assessed for the minimum number of individuals present and for evidence of possible commingling of the decedents placed in the casket in 1973. The remains were also compared with photographs and inventory documentation from the ML73-3333 and ML73-3413 case files. IO11-00555 represents the nearly complete skeletal remains of one individual and is consistent with the archived photo and record documentation of ML73-3333. IO11-00556 is comprised of a minimum of two commingled individuals (see <u>Inventory</u> below), but is consistent with the archived photo and record documentation of ML73-3413. Therefore, IO11-00555 is reassigned case number ML73-3333 and IO11-00556 is reassigned case number ML73-3413.

ML73-3413 was examined grossly and with a stereomicroscope when appropriate, measured and photographed. Elements representing a second individual were removed and submitted to the University of North Texas Center for Human Identification (UNT) for DNA analysis (see <u>Inventory</u> below). Following the examination, ML73-3413 was placed in a box labeled with the case number and returned to the HCIFS Morgue refrigeration unit.

### Case Background

ML73-3333 and ML73-3413 are two of 27 companion cases recovered from three locations during a serial murder investigation in August 1973. The partially fleshed, articulated remains of ML73-3333 were recovered on August 8, 1973 from the dirt floor of a storage facility in southwest Houston. The disarticulated skeletal remains of ML73-3413 were recovered from a burial site on a beach in Chambers County on August 13, 1973.

ML73-3333 and ML73-3413 were identified through circumstantial evidence on October 9, 1973 as brothers Michael Anthony Baulch and Billy Gene Baulch, Jr. (see <u>Identification</u> section below). The remains were released to the funeral home on October 10. The family chose to place the decedents within the same casket for burial in the Woodlawn Cemetery.

ML73-3333 was misidentified as Michael Baulch in 1973. The misidentification was discovered in 2010 during the ongoing Forensic Anthropology Division review of

Billy Gene Baulch, Jr.
Report of Anthropology Consultation
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unidentified decedent cases. ML73-3378, a companion case recovered from a Lake Sam Rayburn beach on August 9, 1973 was subsequently identified as Michael Baulch by DNA comparison. See <u>Identification</u> below. The identity of ML73-3333 is unknown at this time (see Anthropology Report ML73-3333).

### Inventory

The remains of ML73-3413 represent a minimum of two individuals. The first individual, identified as Billy Baulch, is represented by approximately 60% of the skeleton. The following elements are absent.

### Mandible

Right ribs 1-2 and 11-12

Left ribs 8 and 10-12

Manubrium, corpus sterni, and xiphoid process

Cervical vertebra 3

Three mid-range cervical vertebrae

Nine mid-range through lower range thoracic vertebrae

Lumbar vertebrae 2-5

Sacrum

Right innominate

Right patella

Left patella

Right carpals (7), right hamate is present

Right metacarpals 1-5

All phalanges of the right hand

Left ulnar epiphysis

Left carpals (8)

Left metacarpals 1-5

All phalanges of the left hand

Right tarsals (7)

Right metatarsals 1-5

All phalanges of the right foot

Left tarsals (7)

Left metatarsals 1-4

Billy Gene Baulch, Jr.
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Left metatarsal 5, retained in 1973 and submitted for DNA analysis in 2006) All phalanges of the left foot

The following elements are inconsistent in size, general morphology, and/or age with the majority of the remains. These elements, representing a minimum of one individual, were examined and photographed prior to removal for DNA analysis. A case number(s) will be assigned to the remains after receipt of DNA results.

- Right innominate: the right innominate is more robust than the left, and the size
  of the acetabulum is not a good fit for the right femoral head. The left
  innominate and left femur articulate well. DNA analysis of the left innominate
  indicates that the left innominate likely belongs to Billy Baulch (see <u>Identification</u>
  section below).
- One mid-range thoracic vertebra, one upper range lumbar vertebra, and one mid-range lumbar vertebra. The rims of the centra are more developed than those of the other vertebrae, and may represent an older individual. The lumbar vertebrae centra also contain Schmorl's nodes, inconsistent with the healthy centrum faces of the other vertebrae. DNA analysis indicates the more youthful vertebrae belong to Billy Baulch (see <u>Identification</u> section below).
- One right second or third rib. The rib is noticeably more robust than the upper range ribs of the left side.

### Skeletal Profile

The following profile was obtained from the remains determined by comparison of morphology, growth, and development to belong to the same individual and to represent the majority of ML73-3413. The results are consistent with the missing person description of Billy Gene Baulch, Jr. (17 years old at disappearance on 5/21/1972, DOB: 04/21/1955, White male, estimated 5'9" tall) obtained from the original autopsy report supplement, dated October 8-9, 1973, in which ML73-3413 was identified as Billy Gene Baulch, Jr.

Age: 16–19 years

• Ancestry: White, with possible Native American admixture

Sex: Male

• Stature: 62.0"-68.6" (5'3" - 5'9")

Billy Gene Baulch, Jr.
Report of Anthropology Consultation
ML73-3413
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### Age

The decedent is an adolescent of an estimated 16-19 years based on epiphyseal fusion, age-related morphology of the sternal end of the fourth rib and the pubic symphysis, dental development, and general skeletal size.

The remains are large enough in general size to represent an adult individual. However, the pattern of epiphyseal fusion is consistent with an adolescent that has not yet attained full adult skeletal growth and development. The following epiphyses are in a stage of partial union. The age range estimates for fusion follow Scheuer and Black.

- Basilar suture (range 13-18 years)
- Posterior atlas, likely an anomaly, fuses at approximately 4-5 years
- Rib heads (range 17-25 years)
- Thoracic vertebral rims (range puberty to early 20s)
- Lumbar vertebral rim (range puberty to early 20s)
- Ischial tuberosity (<20 years)</li>
- Iliac crest (17-20 years)
- Head of humerus (16-20 years)
- Medial epicondyle of humerus (14-16 years)
- Distal radius (16-20 years)
- Distal ulna (17-20 years)
- Head of femur (15-19 years)
- Distal femur (16-20 years)
- Proximal tibia (15-19 years)

The age-related morphology of the left fourth rib is consistent with Phases 0–1a (male) of the Iscan model, corresponding to an age range of <17–19 years. In cross-section the rib end is smooth and minimally convex, with no development of the rim observed. Age-related morphology of the left pubic symphysis face corresponds to male Phase I–1 of the Suchey-Brooks method, with a range of 15–23 and a mean of 18.5 years of age. The symphyseal face is somewhat eroded as a result of taphonomic processes but there is clear absence of upper and lower delimitation accompanied by the presence of marked ridges and furrows.

Billy Gene Baulch, Jr.
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The dentition is consistent with that of an adolescent. The maxillary third molars, teeth 1 and 16, are in an early stage of eruption. The roots have developed to approximately 34 of the full length and are open at the apices. Although development and eruption of the third molars is variable, this stage has been described by Smith as consistent with a mean age of 16.4 years. The dentition is described more fully under the <u>Dentition</u> section below.

### Ancestry

ML73-3413 is estimated as White with possible Native American admixture based on metric and morphological analyses. Cranial and postcranial measurements for ML73-3413 were entered into FORDISC 3.1, a multidiscriminant function software program. FORDISC 3.1 compared the measurements with those compiled in the Forensic Database and provided the following classification results:

- White male, based on 39 postcranial measurements compared with males and females in the Forensic Database (posterior probability=0.998, typicality probability=0.657, and a low typicality Chi=0.040).
- White male, based on stepwise comparison of 5 postcranial measurements also compared with both males and females (posterior probability=0.478, typicality probability=0.450, typicality Chi=0.414). The decedent is an adolescent. Comparison with only male measurements results in an inconclusive classification.
- White male, based on 17 cranial measurements compared with all individuals in the Forensic Database (posterior probability = 0.774, typicality probability = 0.345, typicality Chi=0.265).
- White male, based on stepwise comparison of 11 cranial measurements with males only (posterior probability=0.645, typicality probability=0.677, typicality Chi=0.645).

The morphological method of ancestry estimation for ML73-3413 follows the Gill and Rhine model. Characteristics of the cranium associated with White populations observed in the decedent include: small retreating zygomatics, a sharp protruding nasal sill, a narrow nasal aperture, high arched nasal bones, and little alveolar prognathism. Characteristics of the cranium associated with Native American populations observed include: a low sloping skull shape, rounded and high skull

Billy Gene Baulch, Jr.
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height, broad and flat facial shape, square eye orbits, angled zygomaxillary sutures, a markedly elliptic palate shape, straight palatal suture, and a lack of crowding in the dentition. The femur curvature is uninformative for ancestry because it differs between the left femur (arched) and the right femur (little arching).

In addition to the Gill and Rhine skeletal morphology model, non-metric traits of the maxillary dentition are supportive of White ancestry/Native American admixture. The Carabelli's cusp trait is frequently expressed in males of European descent while the shovel shaped incisor trait is infrequently expressed. Conversely, the shovel shaped incisor trait is frequently expressed in populations of Asian descent, such as Native Americans. The Carabelli's cusp trait is infrequently expressed in these populations. Research on the genetic basis for expression of these traits is published in the current dental and anthropological literature. Both traits are observed in the maxillary dentition of ML73–3413, suggesting a possible combination of White and Asian/Native American ancestry. See the Dentition section below for further description.

### Sex

The decedent is estimated as male based on results from the FORDISC 3.1 cranial and postcranial analyses described under Ancestry, the diameter of the humeral and femoral heads, the morphology of the cranium using the Buikstra and Ubelaker model, and the structure of the pelvis following the Phenice model.

The male characteristic of marked extension of the zygomatic arch past the external auditory meatus is observed in the cranium. The majority of the cranial characteristics are either indeterminate or female in expression, likely due to the young developmental age of the decedent. Male characteristics observed in the postcranial skeleton include features of the pelvis (a narrow sciatic notch, absence of a ventral arc, subpubic convexity, absence of ischiopubic concavity, short pubic length, and a flat sacral attachment), humeral head diameters greater than 47.2 mm and femoral head diameters of 47 mm and 48 mm.

### Stature

Living stature is estimated using FORDISC 3.1 comparison of postcranial measurements from the decedent with those of White males compiled in the Forensic

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Database. FORDISC 3.1 calculates an estimated stature range of 62.0"-68.6" (5'2"-5'9").

### Trauma

### Antemortem:

An investigator supplement to the ML73-3413 autopsy report notes that "An X-ray of Billy Baulch's left elbow...revealing a fracture which occurred in 1966" was turned over to H.C. Gregory of the Harris County Morgue. This radiograph is not available for review. No fracture scars are observed on the distal left humerus or the proximal left radius and ulna. Instead, a very subtle well-healed fracture scar is observed on the distal left radius. Due to the fact that the elbow injury occurred approximately five years prior to death and the decedent was 11 years old at the time, it is possible that the fracture line is no longer visible.

### Perimortem:

No perimortem injury is described in the ML73-3413 autopsy report. Due to taphonomic processes of burial and periodic submersion in water for 38 years, perimortem injury to the skeleton cannot be reliably distinguished from postmortem damage.

### Postmortem:

The maxillary dental arch was removed with an autopsy saw for identification purposes at the original examination. Crumbling of the fragile nasal bones, ethmoid, and vomer is observed. A small round defect in the superior right scapular blade is consistent with puncture of the delicate blade in an anatomically anterior to posterior direction. The elements are coated with residual quick-lime (noted at autopsy) as well as the precipitated mineral sheets described above. The cortical surfaces of the morphological features are somewhat eroded. A complete transverse fracture of left rib 9 occurred during cleaning of the elements for examination.

### Pathology and Individualizing Characteristics

No pathological conditions are observed. The following individualizing characteristics are present: retained metopic suture of the frontal bone and incomplete fusion of the first cervical vertebra posterior rim.

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### **Dentition**

The mandible was not recovered in 1973 and is absent at this examination. All maxillary teeth were present in the dental arcade at recovery in 1973. Teeth 8–12 are absent postmortem at this examination but are documented in the original autopsy report and photographs. The dentition is relatively healthy and no reconstructions are observed. A Carabelli's cusp (accessory cusp that may develop on the mesiolingual cusp of the maxillary first molar) is observed on teeth 3 and 14. Tooth 7 is shovel-shaped (presence of lingual marginal ridges resulting in a concave lingual surface).

Dr. Paul G. Stimson notes caries on teeth 2-3 and 14-15 during his examination of the maxillary dentition in 1973. These caries are observed as pits within the grooves around the occlusal cusps. Dr. Stimson also notes chipping and excessive wear on tooth 9 but tooth 9 is now absent. See Dental Examination on page 4 of the ML73-3413 autopsy report.

### Postmortem Interval

At the time of original skeletal recovery from a shallow sandy beach grave in August 1973, Billy Baulch had been missing since May 21, 1972 (14 months). The remains were coated with lime and wrapped in heavy plastic. The condition of the remains at recovery was described in the ML73-3413 autopsy report as, "skeletal remains...with the flesh nearly completely deteriorated away." Photographs depict disarticulated elements, fully exposed bone, and minimal amounts of adherent tissue. Given the circumstances of deposition, the decomposition stage is consistent with a postmortem interval of one to two years.

### Identification

ML73-3413 was identified in 1973 as Billy Gene Baulch, Jr. based on the following evidence.

- Recognition of the head hair by parents, Mr. and Mrs. Billy Gene Baulch, Sr.
- Recognition of the anterior teeth by Mr. and Mrs. Baulch, particularly the "pointed canines" and a chip in the occlusal surface of tooth 9.
- Review of an antemortem photo of Billy Baulch that shows the anterior teeth in comparison with the maxillary dental arcade of ML73-3413 and also with Dr. Paul Stimson's (forensic odontologist) dental chart and description

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• Review of a radiograph of Billy Baulch's left elbow (no results documented)

DNA sampling and profile comparison were completed as a part of the current examination. Buccal swabs were obtained from Debra Baulch Hernandez, sister of Billy and Michael Baulch. The DNA profile obtained from the swabs was compared with both mitochondrial and nuclear DNA profiles obtained from the left innominate, one upper range lumbar vertebra, and the left fifth metatarsal of the ML73–3413 remains, and the cranium and ribs of ML73–3378. The following statistical conclusions were reported by UNT.

- It is 820 million times more likely that ML73-3413 is a sibling of Debra Sue Baulch Hernandez than if the decedent is unrelated to her.
- It is 10,000 times more likely that ML73-3378 (identified as Michael Baulch) is another biological sibling of Debra Sue Baulch Hernandez than if the decedent is unrelated to her.
- It is at least 379 times more likely that ML73-3413 and ML73-3378 are related as siblings than if they are unrelated.

The DNA profile comparisons are consistent with identification of ML73-3413 and ML73-3378 as Billy and Michael Baulch, respectively. ML73-3413 is identified as Billy and ML73-3378 is identified as Michael due to consistencies in disappearance dates and decomposition stages. Billy disappeared 14 months prior to the recovery of ML73-3413. The decomposition stage at recovery described above is consistent with that postmortem interval. Michael disappeared on July 17, 1973, only three weeks prior to the recovery of ML73-3378 in an articulated and fleshed state.

### Summary

The skeletal remains of ML73-3413 are estimated to represent a White male, 16-19 years of age and 5'2"-5'9" inches tall. ML73-3413 is identified as Billy Gene Baulch, Jr. through DNA profile comparison, development of a consistent biological profile, decomposition stage at recovery, and circumstantial evidence. The remains of Billy Baulch are commingled with skeletal elements representing a minimum of one additional individual. These elements have been examined and submitted to UNT for DNA analysis. With the exception of the commingling and observation of a well-healed fracture scar on the distal left ulna, the anthropological findings are consistent with the

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autopsy findings in the report filed on August 14, 1973. No perimortem skeletal trauma or pathological conditions are observed.

Thoron M. Derrick 6/30/2011

Sharon M. Derrick, Ph.D.

**MMDDYY** 

Forensic Anthropologist

Reviewed by:

Jeonifer C. Love, Ph.D., D-ABFA

6/30/2011 MMDDYY

Forensic Anthropology Director



### Harris County Institute of Forensic Sciences Forensic Anthropology Division Data Sheets



(IOII-00556)	
Case # Mc73.3413 Anthropolo	gist S. Senick
Date/Hour of Examination 3 11 2011 - 3	14 201
	nty Harris
Tumologist Odd IIII 24K	my Harris
Scene Description	
Exhumation from buried Cask	et. Ground water seepage
Exhumation from buried Cask Woodlawn Cemotery, 2/5/2011	Order# 2010-87010
Condition of Remains .	
Friable, muddy, mineral depos	sts veriningt soft
1.0000	
Processing Procedure	
Elements were handwashed in a	real water and air-dried
on trays.	Solitary and an enter
or II aya.	
Personal Property	
None,	
140.4	
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Positively Identified (by) HOIPS/UNIT DNA TO	charge DAID (mits a puelegis)
Positively Identified (by) HCIF5/UNT DNA TO	chnique) DNA (mito + nuclear)
Positively Identified (by) HCIF5/UNT DHAM (ted) Decedent Name Billy Gene Boulch,	Str., WM17, 519", 145165 (description
Positively Identified (by) HCIF5/UNT DNA TO (technology)  Decedent Name Billy Gene Baulch,	Tr., WM17, 5'9", 145165 (description
Decedent Name Billy Gene Baulch,	Tr., WM17, 5'9", 145165 (description
Positively Identified (by) HCIF5/UNT DNA TO (technology)  Decedent Name Billy Gene Baulch,  Unidentified Checklist:	Smilts DNA (mito & nuclear)  Tr., WM17, 51911, 145165 (description
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Decedent Name Billy Gene Baulch,	Jr., WMI7, 519", 1451bs (description
Decedent Name Billy Gene Baulch,	Tr., WM17, 5'9", 145lbs (description)  Photographs  Skeletal Overview
Decedent Name Billy Gene Baulch, Unidentified Checklist:  Dental Chart	Tr. WM17, 5'9", 145lbs (description)  Photographs  Skeletal Overview  Biological Profile
Decedent Name Billy Gene Baulch,  Unidentified Checklist:  Dental Chart  Anthropologist	Photographs  Skeletal Overview  Biological Profile  Reconstruction
Decedent Name Billy Gene Baulch, Unidentified Checklist:  Dental Chart	Photographs  Skeletal Overview  Biological Profile  Reconstruction
Decedent Name Billy Gene Boulch,  Unidentified Checklist:  Dental Chart Anthropologist Odontologist Edentulous	Photographs  Skeletal Overview  Biological Profile  Reconstruction  Trauma  NA Radiographs Identified
Decedent Name Billy Gene Boulch,  Unidentified Checklist:  Dental Chart Anthropologist Odontologist Edentulous	Photographs  Skeletal Overview  Biological Profile  Reconstruction  Trauma  NA Radiographs Identified
Decedent Name Billy Gene Baulch,  Unidentified Checklist:  Dental Chart Anthropologist Odontologist	Photographs  Skeletal Overview  Biological Profile  Reconstruction
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Decedent Name Billy Gene Baulch,  Unidentified Checklist:  Dental Chart  Anthropologist  Odontologist  Edentulous  Radiographs NIA Identified Case  Articulated  Disarticulate  Dental previously done by Dr. Stime no electronic copies available DNA  Identified	Photographs  Skeletal Overview Biological Profile Reconstruction Trauma NA Radiographs Identified  Dissemination NA Identified Case Law Enforcement Media NCMEC # NCIC # NamUs #
Decedent Name Billy Gene Boulch,  Unidentified Checklist:  Dental Chart  Anthropologist  Odontologist  Edentulous  Radiographs NIA, Identified Case  Articulated  Disarticulated  Disarticulate  Dental - previously done by Dr. Stime no electronic copies available DNA	Photographs  Skeletal Overview Biological Profile Reconstruction Trauma NA Radiographs Identified  Dissemination NA Identified Case Law Enforcement Media NCMEC # NCIC #
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# Harris County Medical Examiner's Office Forensic Anthropology Division Skeleton – Anterior View

Skeleton - Anterior View netained metopic suture Nasal bones, vomer, maxillary ethmoid are crumbling arch removed and appear crushed at autopyly - present T. Posterior postmortem with remains indrange CV absent No visible fracture 11-12 absent at elbow Complete transversa postanovtem fracture, (i) riba Injury in 1966, 5 years prior to death anterior well-healed fracture hamate neturned from Storage \* Submitted to UNT for DNA R. innominate i upper range lumbar vert. 1 mid-range lumbar vent.
1 mid-range thomacic vent. | upper range & Rrib, #2 x Absent Present IOII-00556 Converted to

Case Number ML73-3413
Analyst S. Dennick
Date 2 10 2011

### Harris County Institute of Forensic Sciences

Forensic Anthropology Division

Fordisc Measurements

Fordisc Measurements

Used left Sidemeasurements

in Fordisc When possible

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<b></b>			3 of 14		Date _2		
* = reconstruct	ed		<u>5 0 11</u>		Dare -	3/11/95	या

FORDISC 3.1 Analysis of Current Case

-							•
	DF results	s using 3	39	variable	es:		
	CLAAPD	CLAVRD		CLAXLN	FEMBLN	FEMCIR	FEMEBR
	FEMHDD	FEMMAP		FEMMTV	FEMSAP	FEMSTV	FEMXLN
	FIBMDM	FIBXLN		HUMEBR	HUMHDD	HUMMWD	HUMMXD
	HUMXLN	ILIABR		INNOHT	ISCHLN	PUBCLN	RADAPD
	RADTVD	RADXLN		SCAPBR	SCAPHT	TIBCIR	TIBDEB
	TIBNFT	TIBNFX		TIBPEB	TIBXLN	ULNCIR	ULNDVD
	ULNPHL	ULNTVD		ULNXLN			

From Group	Total Number	BF	Into Grou BM	WF	WM	Percen Correc	
 BF	18	14	1	3	0	77.8	-
BM	35	0	32	0	3	91.4	ક
WF	55	4	0	50	1	90.9	ક
WM	102	3	6	0	93	91.2	ક

Total Correct: 189 out of 210 (90.0 %) \*\*\* CROSSVALIDATED \*\*\*

Multigroup Classification of Current Case

Group	Classified into	Distance from	Probabilit Posterior	ies Typ F	Typ Chi	Typ R
WM	**WM**	55.7	0.998	0.657	0.040	0.304 (71/103)
BM		68.2	0.002		0.003	0.057 (33/36)
BF		73.0	0.000		0.001	0.053 (18/19)
WF		78.7	0.000	0.913	0.000	0.018 (56/56)

Current Case is closest to WMs

				Group Me	eans		
			BF	BM	WF	WM	
Current	Case	Chk	18	35	55	102	
CLAAPD	15	+	11.1	13.8	10.4	12.8	
CLAVRD	10		9.7	11.1	9.3	11.3	
CLAXLN	146		140.8	159.5	139.0	156.8	
FEMBLN	429	_	434.4	479.9	431.1	469.2	
FEMCIR	90		80.5	93.1	82.0	92.2	
FEMEBR	81		72.4	83.2	75.7	85.0	
FEMHDD	47		40.8	47.2	42.3	48.4	
FEMMAP	26	_	27.2	31.5	27.4	30.9	
FEMMTV	28		23.8	28.0	24.3	27.8	
FEMSAP	29	+	25.1	28.7	25.9	28.7	
FEMSTV	32		28.3	32.1	29.2	32.1	
FEMXLN	431	_	438.9	483.6	435.2	472.5	
FIBMDM	17	+	13.8	15.3	14.5	15.8	
FIBXLN	360		357.3	395.7	350.8	385.7	
HUMEBR	61		54.4	64.2	55.9	64.5	
HUMHDD	48		40.3	46.7	42.8	48.6	
HUMMWD	18		15.9	19.3	15.5	18.8	
HUMMXD	24	+	20.2	23.7	20.0	23.3	
HUMXLN	313		304.8	340.4	304.1	335.5	
ILIABR	154		142.1	153.6	155.6	160.2	
INNOHT	207		189.3	211.0	202.4	223.0	
ISCHLN	78		77.5	88.9	81.8	91.0	
PUBCLN	79		75.0	76.0	85.3	82.7	
RADAPD	12		11.4	13.0	10.4	12.9	
RADTVD	16		13.3	16.0	13.7	16.6	
RADXLN	243		235.2	266.9	227.8	252.9	
SCAPBR	101		94.1	111.1	95.8	108.0	
SCAPHT	146		137.1	160.8	141.9	163.0	
TIBCIR	100		86.4	100.5	85.9	97.8	
TIBDEB	52		45.4	51.8	46.5	52.2	
TIBNFT	24		22.9	26.6	22.1	25.5 P.	4 of 14

mc74-3413 S. Derrick

FORDISC 3.	1 Analy	sis of	Current	Case			4/27/2011	11:06:12	AM	Page 2
TIBNFX	38	+	31.3	36.7	32.0	36.5				
TIBPEB	77		68.3	78.3	69.8	78.9				
TIBXLN	366		363.7	403.4	356.9	391.6				
ULNCIR	40	+	32.4	37.4	34.0	37.9				
ULNDVD	16	+	12.6	15.7	12.0	15.4				
ULNPHL	240		224.2	253.8	216.8	239.8				
ULNTVD	15		13.4	15.9	13.3	16.3				
ULNXLN	261		252.2	285.0	244.3	271.1				

Natural Log of Determinant = 79.9389

DF results using 5 Forward % selected (min: 1 max: 20, out of 39) variables: INNOHT RADXLN TIBPEB ILIABR SCAPHT

Fro		BF	Into Group BM	WF	WM	Percent Correct
В:	F 18	16	0	1	1	88.9 %
B	м 35	1	33	0	1	94.3 %
W	F 55	4	0	51	0	92.7 %
W	M 102	3	10	3	86	84.3 %

Total Correct: 186 out of 210 (88.6 %) \*\*\* CROSSVALIDATED \*\*\*

### Multigroup Classification of Current Case

Group	Classified	Distance	Probabilit	ies		
	into	from	Posterior	Typ F	Typ Chi	Typ R
WM	**WM**	5.0	0.478	0.450	0.414	0.451 (56/103)
BF		6.4	0.238	0.494	0.269	0.056 (17/19)
BM		7.1	0.170	0.327	0.215	0.257 (26/36)
WF		7.9	0.114	0.228	0.163	0.036 (53/56)

Current Case is closest to WMs

\_\_\_\_\_\_

			Group M	eans	
Current Cas	e Chk	BF 18	BM 35	<b>WF</b> 55	WM 102
INNOHT 20 RADXLN 24 TIBPEB 7 ILIABR 15 SCAPHT 14	3 7 4	189.3 235.2 68.3 142.1 137.1	211.0 266.9 78.3 153.6 160.8	202.4 227.8 69.8 155.6 141.9	223.0 252.9 78.9 160.2 163.0

Natural Log of Determinant = 19.3565

Cranial	サッと
Case	
Current	
of	1
Analysis	
3.1	
FORDISC 3	DE 200011

3/17/2011 9:55:06 AM

	OBB		
	NLH		
トット	NLB		
3	~	~	FOB
	MAE	ZYB	FOL
	7(	XCB	EKB
	GG	XC	DKB
	FRC	IFB	MAL
bles			MDH
variables	BPL	UFHI	UFBR
using 17	BNL	PAC	removed:
results	BBH		Variables
DF re	AUB	OBH	Vari

From Group	Total	AF	into Group	BF	BM	CHM	GTM	HF	HM	JF	M.	MV	WF	WM	Correct
AF	29	11		-	0	1	2	3		0				   C	10
AM	51	ε	33	0	. 1	4	2 1	)	-	· -	0 0	1 (	C	· -	1
BF	70	2	0	38	4	0	4	1 00	ım	ım	10	-	) (C	4 -	٠. ٣
BM	95	4	$\vdash$	6	52	9	-	7	9	m	4	1 7	0	ı LO	54.7 %
CHM	69	4	0	0	00	33	3	Н	2	7	11	2	0	-	00
GTM	68	7	3	3	2	0	41	5	2	0	2	7	- ←	0	~
HF	42	7	0	٣	0	-	5	22	0	2	7	8	4	0	4
HW	166	13	7	7	16	15	25	15	30	H	17	6	7	14	-
JP	118	0	0	4	0	2	0	0	0	112	0	0	0	0	6
ML	168	5	10	0	4	21	10	00	9	2	82	14	2	4	00
VM	48	0	0	0	0	4	3	9	0	2	4	29	0	0	4
WF	160	7	0	7	0	Н	0	00	~	0	2	c	122	15	~
MM	261	9	2	$\vdash$	00	5	0	3	Н	0	14	7	19	200	9

# Multigroup Classification of Current Case

WMS
to
closest
-H
Case
Current

										Group M	Means			
		AF	AM	BF	BM	CHM	GTM	HF	HM	JE	MD	VM	WF	WM
urrent Case	chk	29.	51	70	95	69	89	42	166	118	168	48	1.60	2.61
119		125.6	132.1	1	120.7	123.9	1	119.0	1	112.0	1	122.8	116.4	123.2
137		129.6	133.4	131.2	137.3	139.7	133.2	131.7	136.5	132.6	138.8	137.8	134.1	141.9

FORDISC	3.1 A	nalysis	of	Current	Case			3	/17/203	l1 9:55	:06 AM				
BNL	103		99.9	9 103.0	98.3	104.4	100.3	98.5	95.6	100.8	95.2	101.5	97.6	99.2	106.3
BPL	99		96.7	7 100.1	98.8	104.4	97.1	97.9	93.0	98.7	94.2	97.7	95.4	92.2	98.0
FRC	107		107.6	110.8	107.8	112.6	113.2	106.5	106.4	110.9	107.1	112.6	112.1	109.2	114.8
GOL	185		177.3	3 180.1	178.0	186.8	181.2	173.2	171.2	178.0	171.6	180.1	172-4	177.5	187.9
MAB	62		62.8	3 66.2	62.5	66.2	65.4	64.5	62.6	65.4	61.6	65.5	66.4	58.0	61.7
NLB	23		25.4	26.1	25.0	26.3	25.9	25.5	24.0	24.9	24.8	25.1	26.2	22.3	23.7
NLH	48		51.5	53.8	48.1	52-4	52.3	51.8	49.3	52.1	48.2	52.6	53.1	48.9	52.9
OBB	44	. +	40.	7 42.2	38.4	40.6	38.8	38.9	38.8	39.9	38.1	39.2	38.4	39.1	41.2
OBH	30		35.1	1 35.2	34.4	35.1	34.1	36.1	35.5	35.3	33.8	34.7	33.8	33.2	33.8
OCC	94		93.	7 93.9	97.3	98.7	98.2	95.6	96.2	97.5	96.8	101.5	98.4	97.8	100.7
PAC	. 121	+	107.	7 110.1	112.6	117.0	115.1	112.3	108.7	111.4	108.5	111.3	110.4	112.8	118.3
UFHT	63	***	70.8	3 73.4	66.7	73.0	72.1	71.5	67.6	73.7	65.8	71.2	71.5	67.6	73.9
WFB	97		93.0	97.1	93.2	96.0	92.5	92.9	92.2	94.0	90.0	94.3	94.7	93.4	96.9
XCB	135		137.0	143.0	132.7	135.4	139.2	136.4	135.4	138.2	136.3	141.3	140.5	135.3	140.3
ZYB	132		131.	3 141.2	121.9	130.5	133.0	131.5	123.7	131.1	125.4	134.2	130.0	120.2	129.6

Natural Log of Determinant = 42.2726

BBH NLB BNL OCC BPL OBH WFB NLH

Variables removed: UFBR MDH MAL DKB EKB FOL FOB

From Group	Total Number	AM I	nto Group BM	СНМ	GTM	НМ	JM	VM	WM	Percent Correct
AM	51	34	2	4	 5	0	3	2	1	66.7 %
BM	96	2	64	2	6	9	4	2	7	66.7 %
CHM	69	1	8	35	4	3	10	5	3	50.7 %
GTM	68	4	1	0	52	8	0	2	1	76.5 %
HM	172	5	20	21	40	30	22	15	19	17.4 %
JM	168	22	8	24	6	19	71	14	4	42.3 %
VM	48	0	0	4	3	2	5	33	1	68.8 %
WM	263	1	17	9	1	12	11	8	204	77.6 %

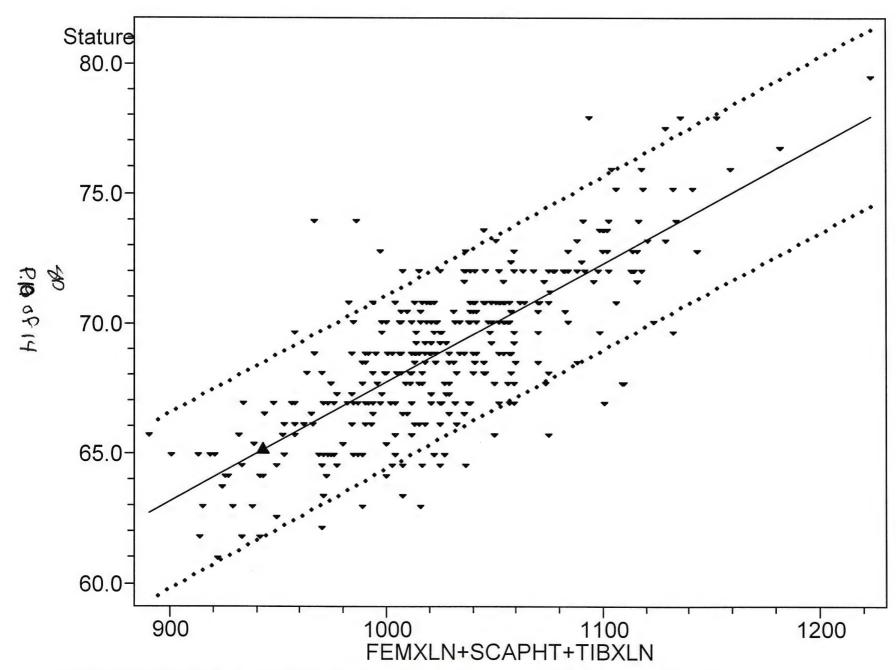
Total Correct: 523 out of 935 (55.9 %) \*\*\* CROSSVALIDATED \*\*\*

### Multigroup Classification of Current Case

Group	Classified into	Distance from	Probabilit Posterior	ies Typ F	Typ Chi	Typ R
WM CHM JM HM BM AM GTM VM	**WM**	8.8 12.6 12.8 13.2 13.4 14.7 18.4	0.645 0.096 0.086 0.070 0.062 0.033 0.005 0.003	0.677 0.492 0.376 0.346 0.385 0.425 0.196 0.229	0.645 0.323 0.308 0.280 0.265 0.197 0.072 0.053	0.635 (96/264) 0.130 (60/70) 0.262 (124/169) 0.326 (116/173) 0.385 (59/97) 0.255 (38/52) 0.044 (65/69) 0.042 (46/49)

Current Case is closest to WMs

							Group	Means		
Curren	it Case	Chk	AM 51	BM 96	CHM 69	GTM 68	НМ 172	JМ 168	VM 48	WM 263
GOL	185		180.1	186.8	181.2	173.2	178.0	180.1	172.4	187.9
ZYB	132		141.2	130.5	133.0	131.5	131.2	134.2	130.0	129.6
BBH	137		133.4	137.3	139.7	133.2	136.5	138.8	137.8	141.9
NLB	23	-	26.1	26.3	25.9	25.5	24.9	25.1	26.2	23.7
BNL	103		103.0	104.4	100.3	98.5	100.7	101.5	97.6	106.3
OCC	94		93.9	98.6	98.2	95.6	97.7	101.5	98.4	100.8



4/27/2011 FORDISC 3.1 : Estimated Stature = 62.0 to 68.6 inches (90% prediction interval)

#### Harris County Institute of Forensic Sciences Forensic Anthropology Division Estimation of Race

(Gill and Rhine 1990, Base 1987, Burns 1999)

ESTIMATION OF RACE White /Asian-Native . += NOTICABLE, ++ = PROMINENT
American Admirature

CAUCASIAN	AFRICAN-AMERICAN	ASIAN/NATIVE AMERICAN
Skull Shape: High, Narrow	Low w/Postbregmatic Depression	+ Low, Sloping
Skull Height: Rounded, Narrow	Low and Flat	+ Rounded, High
Face Shape: Narrow, Long	Prognathic	+ Broad, Flat
Eye Orbits: Slanting Square, Large	Laterally Low and Small	+ Square
Zygomatics: Small- Retreating Malars	Small, Retreating Malars	Robust and Flaring
Zygomaxillary Suture: Jagged, S-Shaped	Curved or S-Shaped	+ Angled
Nasal Sill:  Sharp, Protruding	Guttered	Sharp
Nasal Aperture:  Narrow	Wide	Medium
Nasal Spine: Not presentLarge, Long	Little or None	Medium, Tilted
Nasal Bones: High, Arched	Low, Flat Wide Arch	Low "Tented" Arched
Alveolar Prognathism:  Narrow, Little	Pronounced	Reduced
Palatal Shape: Parabolic, Narrow	Hyperbolic	++ Elliptic
Palatal Suture: Z-Shaped	Arched	+ Straight
Chin: Not present Square, Projecting	Retreating	Blunt
Dentition: Crowded, Impacted M3	Crenulated Molars	+ Not Crowded
Bite: mandible absent	Overbite, Prognathic	Edge-to-Edge
Femur Curvature: Arched (L)	Flat	+ Little

# Harris County Institute of Forensic Sciences Forensic Anthropology Division

**Estimation of Sex** Young individual (Buikstra and Ubelaker 1994, Ubelaker 1989, Bass 1987) FEMALE -2 +2 **CRANIAL** Supra-Orbital Margin Supra-Orbital Ridge Mastoid Process Zygomatic Arch Extension Nuchal Crest Mental Eminence Not presunt Mandibular Ramus Not present Temporalis Attachment POSTCRANIAL Sciatic Notch ☐ Presence (Phenice 1969) Ventral Arc Absence Convex Subpubic Concavity ☐ Concave Ischiopubic Concavity ☐ Presence Absence M Short □ Long Pubic Length ☐ Elevated X Flat Sacral Attachment Sacrum Not present Straight ☐ Curved (Stewart 1979) Femoral Head Diameter >47.5mm <42.5mm 43-46mm **Humeral Head Diameter** >47.2mm <42.7 43-46mm

12 of 14

Case Number <u>ML73-3</u>413 Analyst <u>S. Benn</u>ick Date <u>3 | 14 | 2011</u>

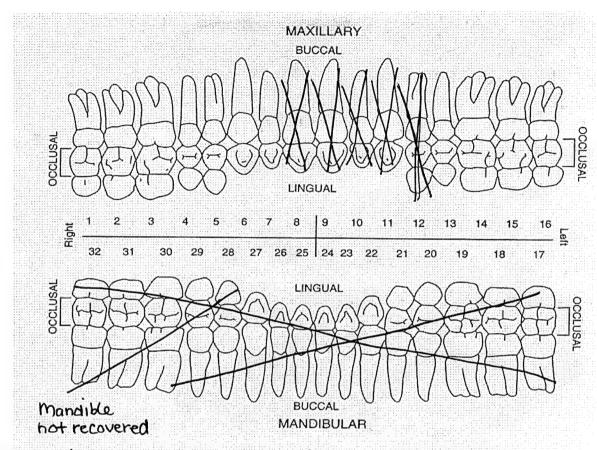
### Harris County Institute of Forensic Sciences Forensic Anthropology Division Age Estimation

ESTIMATION OF AGE: _	16-19 years		Right Probably	
POSTCRANIAL:	1.7		Does not belo	nato
Pubic Symphysis:	* U	LEFT	RIGHT) MC13-	<i>[</i> ]
• • • •	y-Brooks 1990, Suchey and Katz 1986)		15.7	34r5 range
MALE (Suchey-Bi Symphyseal - IS Johns who MALE (Todd 1921 of uppen/II. MALE (Suchey-Bi MALE (Suchey-Bi	rooks 1990. Suchey and Katz 1986)	T-1 more developed   :  :   :   :  :   :	I-1 18.5	yra X s.D=2.1 tdoes not belong to remains
Sternal Rib End Change	28	Rib#: <u></u> 4_Phase:	D-la Rib#:Phase:	
(Iscan et al 1984, 1985, 1986	6)		rs	
Epiphyseal Closure (1 = (Moore-Jansen et al 1994 pa	No Union, 2 = Partial Union, 3 = Compage 8-9, Webb and Suchey 1985)	lete Union) Hopic Sulture re	stained, ribs=head	s not fused re in process
38) Basilar Suture	•		56) Proximal Radius <u>3</u>	17-25415
39) Medial Clavicle			57) distal Radius 者	
40) Atlas – Anterio		1	58) Distal Ulna 2	
41) Atlas – Posterio		346544	59) Distal Ulna 3 Poxi	mal
42) Axis – Anterior	. 0	OCHED A	60) Femur Head 2	
43) Axis – Posterio 44) Cervical Vert R		(10)	61) G. Trochanter 3 62) Distal Femur 2	
45) Thoracic Vert F			63) Proximal Tibia	
46) L5 Body – Arch	•		64) Distal Tibia 3	
40) ES BOUY - Arch	iliac Creat (2		04) Distai Tibia	
	Cederrit is too young (Baker 1984, Mann et al 1987, <eindla e, 2=Significant Closure, 3=Complete O</eindla 			
1) <u>O</u> 10) <u>O</u> 2) <u>I</u> 11) <u>I</u>	a (6) 40	ADADA	c	
3) 12) 0	/	BAOL		
4) 6 13) 0		D P D	1 / /	
5) <u>0</u> 14) <u>1</u>	(2C	H-TO-H		<b>y</b>
6) <u>O</u> 15) <u>O</u> 7) <u>I</u> 16) <u>O</u>				
7) <u>  16) 0</u> 8) <u>  17) 0</u>	"Vereo"	/ \ \		
9) 1	_			
	Vault Score (Sites 1-7) 3	Lateral Score (Sites	6-10)	
Other Indicators of Age	: Little to no wear on te	eeth. Third m	wlar roots open. 3/4	developed.
	to neck (17-25 years		(11	יארש)
THE PART HAVE TO	)	7,		<del></del>
			. ha.hc =	
		C	ase Number ML73-3	

13 of 14

Analyst S. Dennick
Date 3 14 2011

### Harris County Institute of Forensic Sciences Forensic Anthropology Division Dentition Chart - Permanent



\* No caries noted, no reconstructions, cusp wear on 3,14 Smith, 1991 1. erupting 3/4 open roots 16.4 yrs 17. 20. \_\_\_\_\_ 5. pits in occlusal mesial tolistal growers. 6. root complete, 11+yrs 22. \_\_\_\_\_ 7. Shovel, root complete 83+yrs 23. 8. 24. \_\_\_\_\_ 25. \_\_\_\_ 9. 10. \_\_\_\_\_\_ 26. \_\_\_\_ 11. \_\_\_\_\_\_ 27. \_\_\_\_ 12. \_\_\_\_\_\_ 28. \_\_\_\_ 29.\_\_\_\_\_ 14. Carabelli & Cusp, pitting in occ. growvs30. of crupting 3/4, open roots 16.4 yrs 32.

\* Dr. Stimzon notes occlusal caries on 2,3,14,15 must be very subtle, in grooves? - Observed as pits

Case Number ML73-3413
Analyst 3. Aunick
Date 3/14/2011

ATE OF TEXAS	<u> </u>											
PLACE OF DEATH	The Ashar H						eceased lived. If in				sion)	,
Ch.	ambers				a. SIAIE	TEXAS	4	D. COUNT	HAK	KIB		
b. CITY OR TOW	VN (If outside city limits, gi	ive precinct no.)	r. LENGTH	OF STAY	CITY O		ide city limits, give		).)			
found) A	pprox. 19	17 ft.	E. of	the W.	- intermediate	Houston	A state of the					
d. NA AZ G (IF	p DY OX. 19 In bospi & give of Fac	Hwy. 87			d. STREET	ADDRESS (If rure					- HALLOWELL	
HOSPITAL OR	ne of Cha	mbers G	o. I as	mrox.	r	439 Mai	st 16th					-
e. IS PLACE OF E	DEATH INSIDE CITY LIN	AITS?			e. IS RESII	DENCE INSIDE	CITY LIMITS?	· f.	IS RESIDE	NCE ON	A FARM?	
		YES	NO			YES	NO		,	YES		NO 🍱
NAME OF	(a) First		(b) Middle	The surface between the same beat to	(c) Last		4. DATE OF D	EATH				
DECEASED (Type or print)	BILLY		GENE		BATIT CI	H, Jr.	Fo	und	8-1	3-73	* .	
SEX	6. COLOR OR	RACE 7.	Married [] Ne		8. DATE OF BIR	TH	9. AGE (	In years	F UNDER	I YEAR	IF UNDER	R 24 HRS
Male	White	i	/idowed []	Divorced [	April	21, 19			ionins L	Jays	Hours	MINITES
. USUAL OCCUPATI	ION (Give kind of work do				II. BIRTHPLACE	(State or foreign			2. CITIZEN	OF WH	AT COUN	ITRY?
during most of working	ng life, even if retired)	Scho	o1		Houst	on, Tex	16	Ŧ	ARE			
. FATHER'S NAME		1 3000	<u> </u>		14. MOTHER'S			1				
84110	Baulch, Sr.				Magaio	a Jane	Cox					
WAS DECEASED EV	VER IN U.S. ARMED FO	RCES? 16. S	OCIAL SECURI	TY NO.	17. INFORMANT							
***	(If yes, give war or dates	of service)										
				-								
PART I. DEAT		se per line for (a), (b		a due	to stra	ingulat	Lon.				INTERVAL BEI ONSET AND	TWEEN DEATH
18. CAUSE OF DEA PART I. DEAT Conditions, if a which gave rise above cause (a)	TH WAS CAUSED BY:  IMMEDIATE TO			a due	to stra	ingulai	ion.				INTERVAL BEI	TWEEN DEATH
18. CAUSE OF DEA PART I. DEAT Conditions, if a which gave rise	TH WAS CAUSED BY:  IMMEDIATE  Into	E CAUSE (a)		a due	to stra	ingulai	ion.				INTERVAL BEI	IWEEN DEATH
IB. CAUSE OF DEA PART I. DEAT Conditions, if a which gave rise above cause (a) stating the und- lying cause last.	TH WAS CAUSED BY:  IMMEDIATE  Into	DUE TO (c)	ephyxi				£	IVEN IN PA	ART I(a)		VAS AUTO	DEATH
IB. CAUSE OF DEA PART I. DEAT Conditions, if a which gave rise above cause (a) stating the und- lying cause last.	IMMEDIATE	DUE TO (c)	ephyxi				£	IVEN IN PA	ART I(a)	F	VAS AUTO	DEATH
IB. CAUSE OF DEA PART I. DEAT Conditions, if a which gave rise above cause (a) stating the und- lying cause last.	TH WAS CAUSED BY:  IMMEDIATE Into Into Into Into Into Into Into Into	DUE TO (6)	ephyxi	TH BUT NOT REL		EMINAL DISEASI	E CONDITION G		ART I(a)	F	VAS AUTO	DPSY PER-
IB. CAUSE OF DEA PART I. DEAT  Conditions, if a which gave rise above cause (a) stating the und lying cause last.  PART II. OTHE	TH WAS CAUSED BY:  IMMEDIATE Into Into Into Into Into Into Into Into	DUE TO (6)	EPHYXI	TH BUT NOT REL	ATED TO THE TER URRED. (Enter natu	EMINAL DISEASI	E CONDITION G		ART I(a)	F	VAS AUTO	DPSY PER-
IB. CAUSE OF DEA PART I. DEAT  Conditions, if a which gave rise above cause (a) stating the und lying cause last.  PART II. OTHE	TH WAS CAUSED BY:  IMMEDIATE IND.  IND.  ER SIGNIFICANT CONE  SUICIDE	DUE TO (b) DUE TO (c) DITIONS CONTRIBU	EPHYXI	TH BUT NOT REL	ATED TO THE TER URRED. (Enter natu	EMINAL DISEASI	E CONDITION G		ART I(a)	F	VAS AUTO	DPSY PER-
IB. CAUSE OF DEA PART I. DEAT  Conditions, if a which gave rise above cause (a) stating the und lying cause last.  PART II. OTHE	TH WAS CAUSED BY:  IMMEDIATE  IMM	DUE TO (b) DUE TO (c) DITIONS CONTRIBU	EPHYXI	TH BUT NOT REL	ATED TO THE TER URRED. (Enter natu	EMINAL DISEASI	E CONDITION G		ART I(a)	F	VAS AUTO	DPSY PER-
IB. CAUSE OF DEAPART I. DEAT  Conditions, if a which gave rise above cause (a) stating the und lying cause last.  PART II. OTHE  20a. ACCIDENT  20c. TIME OF FINJURY	SUICIDE HOUR DAMES AUGUST	DUE TO (b)  DUE TO (c)  DITIONS CONTRIBU  HOMICIDE  Y Year  73  E OF INJURY (e.g., in	Ephyxi	TH BUT NOT REL	ATED TO THE TER URRED. (Enter natu	RMINAL DISEASI	E CONDITION G		ART I(a)	F	VAS AUTC	DPSY PER-
IB. CAUSE OF DEA PART I. DEAT  Conditions, if a which gave rise above cause (a) stating the undulying cause last.  PART II. OTHE  20a. ACCIDENT  20c. TIME OF INJURY  UNK  20d. INJURY OCCU	SUICIDE Hour Sound Da JRRED 209. PLACE street, arms of the control	DUE TO (b)  DUE TO (c)  DITIONS CONTRIBU  HOMICIDE 20b. I	TING TO DEAT	TH BUT NOT REL  V INJURY OCCU  Strang  farm, factory,   21	ATED TO THE TER  URRED. (Enter natu  1ed.  Df. CITY, TOWN,	RMINAL DISEASI	E CONDITION G	tem 18.)	ART I(a)	F	VAS AUTOORMED?	DPSY PER-NO
IB. CAUSE OF DEA PART I. DEAT  Conditions, if a which gave rise above cause (a) stating the undifying cause last.  PART II. OTHE  20a. ACCIDENT  20c. TIME OF HINJURY UNIX P  20d. INJURY OCCU	ER SIGNIFICANT CONE  SUICIDE  Hour  Dam.  B 13  JRRED  JRED  JRRED  JRRE	DUE TO (b)  DUE TO (c)  DITIONS CONTRIBU  HOMICIDE  Y Year  73  FOR INJURY (e.g., in office building, etc.)	TING TO DEAT	TH BUT NOT REL  V INJURY OCCU  Strang  farm, factory. 21  Gounty  For:	ATED TO THE TER  URRED. (Enter netu  18d.  Df. CITY, TOWN,	RMINAL DISEASI re of injury in Pa	E CONDITION G  rt I or Part II of I	COUNTY		YES	VAS AUTOORMED?	DPSY PER-NO ATE
IB. CAUSE OF DEA PART I. DEAT  Conditions, if a which gave rise above cause (a) stating the undifying cause last.  PART II. OTHE  20a. ACCIDENT  20c. TIME OF HINJURY UNIX P  20d. INJURY OCCU	ER SIGNIFICANT CONE  SUICIDE  Hour  Dam.  B 13  JRRED  JRED  JRRED  JRRE	DUE TO (b)  DUE TO (c)  DITIONS CONTRIBU  HOMICIDE  Y Year  73  FOR INJURY (e.g., in office building, etc.)	TING TO DEAT DESCRIBE HOW	TH BUT NOT REL  V INJURY OCCU  Strang  farm, factory. 21  Gounty  For:	ATED TO THE TER  URRED. (Enter netu  18d.  Df. CITY, TOWN,	MINAL DISEASI re of injury in Pa OR LOCATION	E CONDITION G  rt I or Part II of Ii	COUNTY	)a	YES	VAS AUTOORMED?	DPSY PER-NO
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Autopsy

#### INVESTIGATOR'S REPORT

Investigator: H. C. Gregory

73 - 3413

XXXeXX	Case Ivo.		
Decedent:	Billy Gene Baulch, Jr.	_ Race_W_Sex_	M_Age_17
Address:	439 West 16th Street, Houston, Texas	5	-
Death:	FOUND August 13, 1973  Chambers County, approximately 1917 feet east	of the Wes	00 XXXXX t County.
Place of Death:_	line of Chambers County, approximately 123 fee	et south of	Hwy. 87
Place of Inquest:			
Date and Time of	Inquest: August 14, 1973	4:	50 X <b>X</b> X <b>M</b> X

Location, Position, and Surroundings of Body:

This common grave was known as Chambers County Grave Site #4. This body was known as Chambers County Body #5.

Clothing: There was no clothing.

Information:

The decedent, according to Chambers County Sheriff Louis Otter, was disintered from a grave site at the above location at the above The grave appeared to be about 36 inches deep, 24 inches wide and 42 inches in length. There was no lime-like substance or noticeable foreign matter in the grave, other than the remains of Medicolegal Case 73-3412 and Medicolegal Case 73-3413, a cord similar to a venetian blind cord and plastic covering. The decedent, according to Sheriff Otter, had a smaller bone structure than that of Unknown #25 (Case 73 - 3412). The decedent and Case 73-3412 (Unknown #25) were atop one another in a common grave with their respective heads at opposite ends of the grave.

H. C. Gregory NN

(See Companion Cases 73-3365, 73-3366, 73-3408, 73-3409 and 73-3412)

No jewelry, buttons, buckles or personal effects were located in the Property: grave.

Transferred to Morgue by: Sterling Funeral Home, Dayton, Texas

Funeral Home Conducting Service: Heights Funeral Home, Houston, Texas

#### SUPPLEMENTAL

#### INVESTIGATOR'S REPORT

Investigator: H. C. Gregory

Autopsy

<b>V</b> lew X	Case No73 - 3413		
Decedent:		RaceSex_	Age
Address:			
Death:		Approx. Time	A.M. P.M.
Place of Death:			
Place of Inquest:			
Date and Time of Inquest:			A.M. P.M.

Clothing:

Information:

Location, Position, and Surroundings of Body:

The following information was furnished on August 13, 1973, by Houston Police Department Homicide Detective Donovan regarding Billy Baulch, 17 year, old white male, 5 feet 9 inches, 145 pounds, 439 West 16th Street, Houston, Texas. Billy Baulch had been missing since May 21, 1972. The suspect Brooks said that Billy Baulch was one of the decedents. Billy Baulch had a chip in his upper left lateral incisor. An X-ray of Billy Baulch's left elbow will be furnished to this department, revealing a fracture which occurred in 1966.

X-ray labeled "Billy Baulch" and a black and white photograph of Billy and Mike Baulch were turned over to H. C. Gregory at the Harris County Morque on August 13, 1973, by Houston Police Department Officers A. J. Toepoel and E. E. Benningfield.

H. C. Gregory INN

Property:

Transferred to Morgue by:

Funeral Home Conducting Service:

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. PLACE OF DEATH a. COUNTY						
a. COUNTY		2. USUAL RESIDENCE (Where de-				
Chambers		a. STATE TEXAS	.b, COU	NTY HAR	RIS	
b. CITY OR TOWN (If outside city limits, give precinct no.)	c. LENGTH OF STAY	c. CITY OR TOWN (If outsi	de city limits, give precinc	t no.)		AUGUSTA 00-00000
(found) Approx. 1917 ft. E	of the W	Houston	1	in distance		
d. NAW & III Ett hospital give of odderwy 87	. UL LILE W.	d, STREET ADDRESS (If rura	I, give location)	T.	**************************************	
County of Chambers Co	I annuau I	439 Wes	t 16th	in the second		
. IS PLACE OF DEATH INSIDE CITY LIMITS?	./ approx./	a, IS RESIDENCE INSIDE (	CITY LIMITS?	f. IS RESIDE	NCE ON A FARM	7
				10		
YES YES S. NAME OF (a) First	NO 🗌	(c) Lost	NO	1 8	YES	иоГ
DECEASED	•			d 8-1	2_72	
5. SEX 6. COLOR OR RACE 7.	GRNE	BAULCH, Jr.	9. AGE In years		J YEAR   IF UND	R 24 HR
M	arried Never Married		7 alast birthday)		Days Hours	Minute
	owed Divorced	April 21, 19	55 <u>d</u> 78			1
10a. USUAL OCCUPATION (Give kind of work done during most of working life, even if retired)	SINESS OR INDUSTRY	II. BIRTHPLACE (State or foreign	country)	2	OF WHAT COL	NIKT?
Student Schoo	1	Houston, Tex	8.5	USA		
13. FATHER'S NAME		14. MOTHER'S MAIDEN NAME				
Billy Baulch, Sr.  15. WAS DECEASED EVER IN U.S. ARMED FORCES?   16. SO		Maggie Jane	Cox			
15. WAS DECEASED EVER IN U.S. ARMED FORCES? [16. SO [Yes, no, or unknown] [If yes, give war or dates of service]	CIAL SECURITY NO.	17. INFORMANT				
is yes, give war or dates of services						
18. CAUSE OF DEATH [Enter only one cause per line for (a), (b),	and (c).]			44	INTERVAL ONSET AN	ETWEEN
Conditions, if any, which gave rise to	phyxia due	to strangular	tion.			
Conditions, if any, which gave rise to above cause (a), stating the under-	phyxia due	to strangular	tion.			
Conditions, if any, which gave rise to above cause (a), stating the underlying cause last.  DUE TO (b)				M DADT (LA)	IQ WAS ALL	TOPCY B
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#### OFFENSE REPORT

			* * *					
PAGE NO.	NE	HOUS	STON P	OLICE DEF	ARTMEN	NT SEI	R. No. D-6	3936
LOCATION	HIGH ISL	AND, TEX	as (out	SIDE)		,	MI.	
OFFENSE	MURDER				CHANGED TO		32	113
COMPLAINANT	Billy Je	an Baule	h Jr	ADDRESS	439 W.	16th	PHO	NE 862-8344
SEX-RACE-AGE	WM 17							
REPORTED BY	David B	ven Brook	ts WM/1	ADDRESS	1445 Ре	oh #6	PHO	NE
TYPE PREMISES	Beach							
TIME OCCURRED	UNKNOW							
TIME RECEIVED	4:50 PM	MONDAY,	August	13, 1973	Det. J	R Hamel	ном	In Person
HOW-MEANS	OBJEC	T	TRD. MK.	DE	SCR.	CLEARED		DATE
DISTRIBUTION	1 CASH	2 JEWELRY	3 BICYCLES	4 CLOTHING S	MOTOR VEHICLE	MISCELLANEOUS	7 FURS	TOTAL
LOSS								
RECOVERY-DTL.								
		(DETAILS OF OF	FENSE-SUSPECT	rs-persons arreste	D-PROPERTY)			

THIS WILL BE A COMPANION CASE TO D-68904, which will contain all the NOTE: d stails. Also other companion cases are murder cases D-68905 thrum D-68911. (and others)

#### INTRODUCTION:

The complainant in this case will be referred to as #27 in this investigation. Ranger Charlie Neal called back to the Homicide Office and stated that they had discovered another body in the same grave site as body #26 was found.

This was approx. 1260 feet east of the body being shown as #25, and this is in Chambers County. The body was ordered removed to the Harris County Morgue and at this time is unknown. It appears to a white male and is badly decomposed.

NOTE: This body was found in the same grave site as body #26.

IDENTIFICATION OF COMPL.

OCTOBER, 9,1973

Dr. Jachimeyzk called this date and stated that he had made identification of this body and that cause of death was by strangulation.

OFFICERS J.R. HAMEL D-532. J.D. TUCKER D-559 K. D. POFFER D-563

**EDITED** 

CHANGED

INDEXED

BULLETIN

**PUNCHED** 

STATE OF OHIO 82-248 Rov. 8/70

## STATE HIGHWAY PATROL DENTAL CHART

et.	rill out all informat	ion in PERCIL		
<del>"</del> 26	Assigned identification number	:1,	Division C	and Humber
73-34/3	Autopsy number		Picture_Po	uch Number
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	Billy Baulek			
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	number and artifici			
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Marian and American State of the Company of the Com	Plantage Variation	•		
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Name, Address, and To	ologhono Kumbor of the Assistant			
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Signatura of the exam	Sinar Si	gnature of the Assistant		-

#### DENTAL CHARTING PROCEDURES

Indicate if crowned teeth are Percelain, Plastic, Gold, Gold Vencor, or non-precious metal. Write in above apprepriate teeth on restoration chart—Page 3. For Gold work or vencor crowns outline restoration and indicate gold with parallel vertical lines. For percelain crowns or plastic fillings outline restorations only—write in the type of material. For all amalgam and non-precious metals black in. (SEE EXAMPLE BELOW)

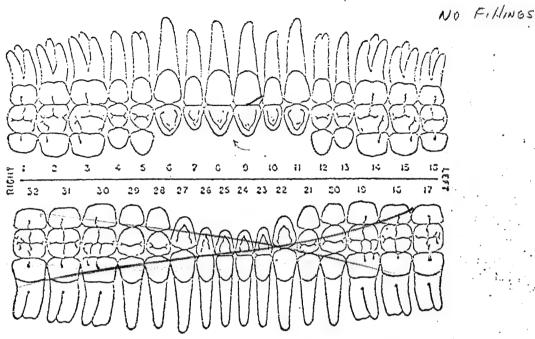
This charting procedure starts with the upper right third molar which is tooth \$1 and proceeds around the arch. The upper right central incisor is \$8, the upper left third melar is \$16. The lower left third melar is \$17. The lower right central incisor is \$25 and the lower right third melar is \$52.

Hark all deciduous teeth with a D around the number of its permanent successor. The deciduous uppor right central would be marked 8 and the lower right second deciduous molar would be marked 29.

			•	EX	MPLE	OF HO	W TO	PROCE	ED WIT	H DEN	TAL C	HARTI	HG	:	· •		
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UPFER RIGHT				CXXX	000			(C)			(C)(D)	OCO		<u>CRE</u>		CHECK	UPPER LEFT
	2.	O-AM DOL-AM: F- MOD GOLD F			6.	10-AM 1L-GOL 5/4 GO			9. P 10. F	-PORC						IG .	
	14.	F-GOLD FIL	L; KL-A						12. P				118811				:

After you have finished your exemination have your assistant read the charting back to you as you recheck each tooth; then proceed to note any of the following conditions. Indicate answers with tooth number.

Hottled Enemal	Rotation
Frectured Enemol	Irrogularity of Alignment
Enamel Hypoplasia	Unorupted Tooth
Frectures of Tooth	Unusual Rostorations
Erosion	Halocolusion-
Retained Doc. Teeth	Unusual Appliances
Abrasion	Supernumerary Tooth
Abnormal interdental Spaces	Kalposed Teeth
REHARKS	



•

Circle descriptive term

Prosthetic Appliances
Prosont ---- Haxilla

Full Danturo

Partial Donturo Fixed Sridge

Prosthetic Appliances
Prosent — Handible

Full Donture

Partial Donture Fixed Bridge

Fixed Bridge
Stains on

Describe completely all Prosthetic Appliances or

Fixed Bridges NO MANDIBLE #9 CHIPPED ON DISTAL INCISAL teeth

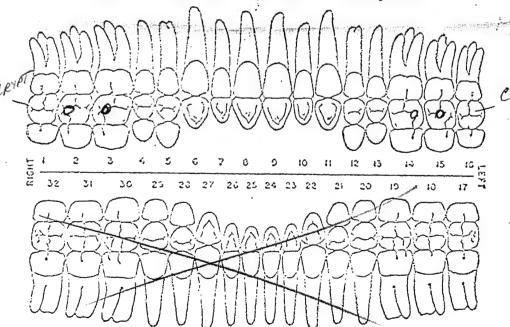
#9 MESIAL ROTATION - LAPS OVER MESIAL INCISAL OF #8 Slight

Hoderate

Sovere

HARK ALL CARIES AND MISSING TEETH ON THIS CHART

Outline all caries and 'X' out all missing tooth



Circle descriptive term

Jaw Relationship

Hormal

Undershot

. Ovorbite

Poriodontal condition

Excellent

Avorago

Poor

Gross Reglect

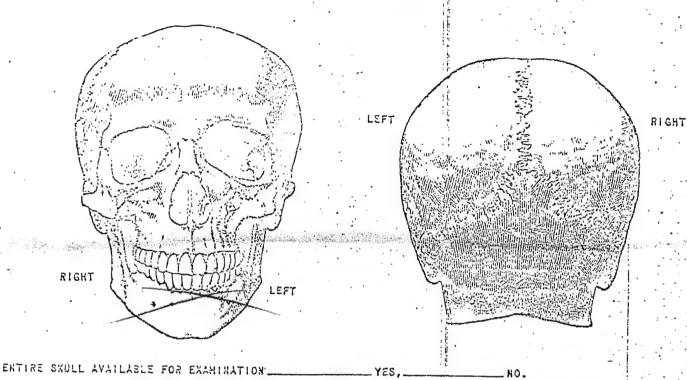
Calculus

Slight

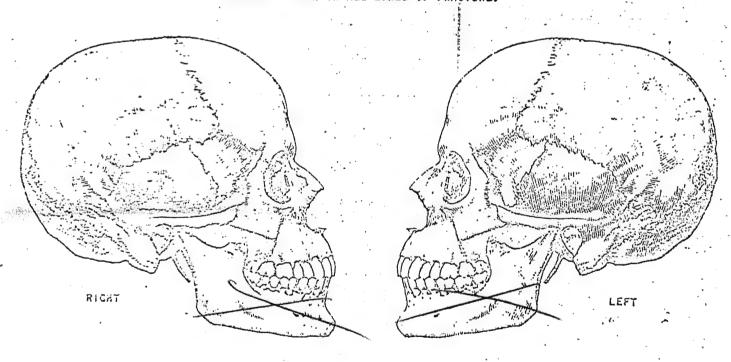
Hoderate

Savere

#### ANATOMICAL OUTLINES



IF ONLY PARTS OF THE SKULL ARE AVAILABLE BLACK OUT THE PARTS OF THE SKULL THAT YOU HAVE USED FOR THE IDENTIFICATION PROCEDURE. MARK IN ALL LINES OF FRACTURE.



MAKE SURE THAT ANY PARTS OF THE SHULL THAT YOU DEMOVE HAVE ATTACHED TO THEN A TAG WITH THE ASSIGNED IDENTIFICATION NUMBER.

AFIP NUMBER 65-5346-1

Division Consultant: Dr. Curtis A. Hortz
P. O. Box 370
Aghtabula, Ohio 44004

	DATE:	<b>#</b> 26	ML 73-3413
	SEX:	SCARS: Skeleton	
	RACE:	TATTOOS:	
	EST. AGE: 21-23	OTHER AND	
	HEIGHT: 5-31/2 to 5-6		
	WEIGHT:	X-RAY:	
VIEWED:	EYES:		
<b>м</b> Ш	HAIR: brown 6-7 inches		
oy can			
BODY			
	HCME OFFICER PRESENT:		

## HARRIS COUNTY INSTITUTE OF FORENSIC SCIENCES 1885 OLD SPANISH TRAIL HOUSTON, TEXAS 77054-2098

Sharon M. Derrick, Ph.D. Forensic Anthropologist

ML73-3413

#### REPORT OF ANTHROPOLOGY CONSULTATION

CASE NUMBER:

ML73-3413 (formerly IO11-00556)

NAME:

Billy Gene Baulch, Jr.

PATHOLOGIST:

Joseph A. Jachimczyk, MD, G. Sheldon Green, MD and

Dwayne A. Wolf, MD, PhD

DATE (analyzed): March 11-14, 2011

On February 10, 2011, Dr. Wolf, Deputy Chief Medical Examiner, requested a skeletal profile and trauma analysis review of the skeletal remains of ML73–3413 (IO11–00556). The remains were exhumed from Woodlawn Cemetery, 1101 Antoine Drive, Houston, Texas under Order Number 2010–83010 from Harris County District Court 151. The exhumation was performed on February 8, 2011 to examine ML73–3333 and ML73–3413 for collection of anthropological and DNA data. See the original autopsy reports for ML73–3333 and ML73–3413 included in the current case files and the <u>Case Background</u> section below for detailed information on these cases. Two discrete body bags containing skeletal remains were recovered from within a single casket. The remains were immediately transferred to the HCIFS Morgue, received through the check–in process, and placed in the Anthropology Laboratory. Although the remains were believed to be those of ML73–3333 and ML73–3413, the cases were assigned inquest numbers (IO11–00555 and IO11–00556, respectively) at check–in.

As a result of the shallow water table geology of the Houston area, the two body bags were submerged in muddy water within the casket. The water had leaked through the zippers, resulting in waterlogged and softened skeletal elements. Further, mineral deposits had precipitated from the water to coat the majority of the bone surfaces. The elements of each set of remains were washed individually in cool water, reconstructed, ordered, and placed in anatomical position on an examination table to dry.

IO11-00555 and IO11-00556 were assessed for the minimum number of individuals present and for evidence of possible commingling of the decedents placed in the casket in 1973. The remains were also compared with photographs and inventory documentation from the ML73-3333 and ML73-3413 case files. IO11-00555 represents the nearly complete skeletal remains of one individual and is consistent with the archived photo and record documentation of ML73-3333. IO11-00556 is comprised of a minimum of two commingled individuals (see <u>Inventory</u> below), but is consistent with the archived photo and record documentation of ML73-3413. Therefore, IO11-00555 is reassigned case number ML73-3333 and IO11-00556 is reassigned case number ML73-3413.

ML73-3413 was examined grossly and with a stereomicroscope when appropriate, measured and photographed. Elements representing a second individual were removed and submitted to the University of North Texas Center for Human Identification (UNT) for DNA analysis (see <u>Inventory</u> below). Following the examination, ML73-3413 was placed in a box labeled with the case number and returned to the HCIFS Morgue refrigeration unit.

#### Case Background

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ML73-3333 and ML73-3413 are two of 27 companion cases recovered from three locations during a serial murder investigation in August 1973. The partially fleshed, articulated remains of ML73-3333 were recovered on August 8, 1973 from the dirt floor of a storage facility in southwest Houston. The disarticulated skeletal remains of ML73-3413 were recovered from a burial site on a beach in Chambers County on August 13, 1973.

ML73-3333 and ML73-3413 were identified through circumstantial evidence on October 9, 1973 as brothers Michael Anthony Baulch and Billy Gene Baulch, Jr. (see <u>Identification</u> section below). The remains were released to the funeral home on October 10. The family chose to place the decedents within the same casket for burial in the Woodlawn Cemetery.

ML73-3333 was misidentified as Michael Baulch in 1973. The misidentification was discovered in 2010 during the ongoing Forensic Anthropology Division review of unidentified decedent cases. ML73-3378, a companion case recovered from a Lake Sam Rayburn beach on August 9, 1973 was subsequently identified as Michael Baulch

by DNA comparison. See <u>Identification</u> below. The identity of ML73-3333 is unknown at this time (see Anthropology Report ML73-3333).

#### Inventory

The remains of ML73-3413 represent a minimum of two individuals. The first individual, identified as Billy Baulch, is represented by approximately 60% of the skeleton. The following elements are absent.

Mandible

Right ribs 1-2 and 11-12

Left ribs 8 and 10-12

Manubrium, corpus sterni, and xiphoid process

Cervical vertebra 3

Three mid-range cervical vertebrae

Nine mid-range through lower range thoracic vertebrae

Lumbar vertebrae 2-5

Sacrum

Right innominate

Right patella

Left patella

Right carpals (7), right hamate is present

Right metacarpals 1-5

All phalanges of the right hand

Left ulnar epiphysis

Left carpals (8)

Left metacarpals 1-5

All phalanges of the left hand

Right tarsals (7)

Right metatarsals 1-5

All phalanges of the right foot

Left tarsals (7)

Left metatarsals 1-4

Left metatarsal 5, retained in 1973 and submitted for DNA analysis in 2006)

All phalanges of the left foot

The following elements are inconsistent in size, general morphology, and/or age with the majority of the remains. These elements, representing a minimum of one



individual, were examined and photographed prior to removal for DNA analysis. A case number(s) will be assigned to the remains after receipt of DNA results.

- Right innominate: the right innominate is more robust than the left, and the size
  of the acetabulum is not a good fit for the right femoral head. The left
  innominate and left femur articulate well. DNA analysis of the left innominate
  indicates that the left innominate likely belongs to Billy Baulch (see <u>Identification</u>
  section below).
- One mid-range thoracic vertebra, one upper range lumbar vertebra, and one mid-range lumbar vertebra. The rims of the centra are more developed than those of the other vertebrae, and may represent an older individual. The lumbar vertebrae centra also contain Schmorl's nodes, inconsistent with the healthy centrum faces of the other vertebrae. DNA analysis indicates the more youthful vertebrae belong to Billy Baulch (see <u>Identification</u> section below).
- One right second or third rib. The rib is noticeably more robust than the upper range ribs of the left side.

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#### Skeletal Profile

The following profile was obtained from the remains determined by comparison of morphology, growth, and development to belong to the same individual and to represent the majority of ML73-3413. The results are consistent with the missing person description of Billy Gene Baulch, Jr. (17 years old at disappearance on 5/21/1972, DOB: 04/21/1955, White male, estimated 5'9" tall) obtained from the original autopsy report supplement, dated October 8-9, 1973, in which ML73-3413 was identified as Billy Gene Baulch, Jr.

Age: 16–19 years

Ancestry: White, with possible Native American admixture

Sex: Male

• Stature: 62.0"-68.6" (5'3" - 5'9")

#### Age

The decedent is an adolescent of an estimated 16-19 years based on epiphyseal fusion, age-related morphology of the sternal end of the fourth rib and the pubic symphysis, dental development, and general skeletal size.

The remains are large enough in general size to represent an adult individual. However, the pattern of epiphyseal fusion is consistent with an adolescent that has not

yet attained full adult skeletal growth and development. The following epiphyses are in a stage of partial union. The age range estimates for fusion follow Scheuer and Black.

- Basilar suture (range 13–18 years)
- Posterior atlas, likely an anomaly, fuses at approximately 4-5 years
- Rib heads (range 17-25 years)
- Thoracic vertebral rims (range puberty to early 20s)
- Lumbar vertebral rim (range puberty to early 20s)
- Ischial tuberosity (<20 years)</li>
- Iliac crest (17–20 years)
- Head of humerus (16–20 years)
- Medial epicondyle of humerus (14–16 years)
- Distal radius (16–20 years)
- Distal ulna (17–20 years)
- Head of femur (15–19 years)
- Distal femur (16–20 years)
- Proximal tibia (15–19 years)



The age-related morphology of the left fourth rib is consistent with Phases 0–1a (male) of the Iscan model, corresponding to an age range of <17–19 years. In cross-section the rib end is smooth and minimally convex, with no development of the rim observed. Age-related morphology of the left pubic symphysis face corresponds to male Phase I–1 of the Suchey-Brooks method, with a range of 15–23 and a mean of 18.5 years of age. The symphyseal face is somewhat eroded as a result of taphonomic processes but there is clear absence of upper and lower delimitation accompanied by the presence of marked ridges and furrows.

The dentition is consistent with that of an adolescent. The maxillary third molars, teeth 1 and 16, are in an early stage of eruption. The roots have developed to approximately 34 of the full length and are open at the apices. Although development and eruption of the third molars is variable, this stage has been described by Smith as consistent with a mean age of 16.4 years. The dentition is described more fully under the <u>Dentition</u> section below.

#### Ancestry

ML73-3413 is estimated as White with possible Native American admixture based on metric and morphological analyses. Cranial and postcranial measurements for ML73-3413 were entered into FORDISC 3.1, a multidiscriminant function software program.

FORDISC 3.1 compared the measurements with those compiled in the Forensic Database and provided the following classification results:

- White male, based on 39 postcranial measurements compared with males and females in the Forensic Database (posterior probability=0.998, typicality probability=0.657, and a low typicality Chi=0.040).
- White male, based on stepwise comparison of 5 postcranial measurements also compared with both males and females (posterior probability=0.478, typicality probability=0.450, typicality Chi=0.414). The decedent is an adolescent. Comparison with only male measurements results in an inconclusive classification.
- White male, based on 17 cranial measurements compared with all individuals in the Forensic Database (posterior probability = 0.774, typicality probability = 0.345, typicality Chi=0.265).
- White male, based on stepwise comparison of 11 cranial measurements with males only (posterior probability=0.645, typicality probability=0.677, typicality Chi=0.645).

The morphological method of ancestry estimation for ML73-3413 follows the Gill and Rhine model. Characteristics of the cranium associated with White populations observed in the decedent include: small retreating zygomatics, a sharp protruding nasal sill, a narrow nasal aperture, high arched nasal bones, and little alveolar prognathism. Characteristics of the cranium associated with Native American populations observed include: a low sloping skull shape, rounded and high skull height, broad and flat facial shape, square eye orbits, angled zygomaxillary sutures, a markedly elliptic palate shape, straight palatal suture, and a lack of crowding in the dentition. The femur curvature is uninformative for ancestry because it differs between the left femur (arched) and the right femur (little arching).

In addition to the Gill and Rhine skeletal morphology model, non-metric traits of the maxillary dentition are supportive of White ancestry/Native American admixture. The Carabelli's cusp trait is frequently expressed in males of European descent while the shovel shaped incisor trait is infrequently expressed. Conversely, the shovel shaped incisor trait is frequently expressed in populations of Asian descent, such as Native Americans. The Carabelli's cusp trait is infrequently expressed in these populations. Research on the genetic basis for expression of these traits is published in the current dental and anthropological literature. Both traits are observed in the maxillary

dentition of ML73-3413, suggesting a possible combination of White and Asian/Native American ancestry. See the <u>Dentition</u> section below for further description.

#### Sex

The decedent is estimated as male based on results from the FORDISC 3.1 cranial and postcranial analyses described under Ancestry, the diameter of the humeral and femoral heads, the morphology of the cranium using the Buikstra and Ubelaker model, and the structure of the pelvis following the Phenice model.

The male characteristic of marked extension of the zygomatic arch past the external auditory meatus is observed in the cranium. The majority of the cranial characteristics are either indeterminate or female in expression, likely due to the young developmental age of the decedent. Male characteristics observed in the postcranial skeleton include features of the pelvis (a narrow sciatic notch, absence of a ventral arc, subpubic convexity, absence of ischiopubic concavity, short pubic length, and a flat sacral attachment), humeral head diameters greater than 47.2 mm and femoral head diameters of 47 mm and 48 mm.

#### <u>Stature</u>

Living stature is estimated using FORDISC 3.1 comparison of postcranial measurements from the decedent with those of White males compiled in the Forensic Database. FORDISC 3.1 calculates an estimated stature range of 62.0"-68.6" (5'2"-5'9").

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#### Trauma

#### Antemortem:

An investigator supplement to the ML73-3413 autopsy report notes that "An X-ray of Billy Baulch's left elbow...revealing a fracture which occurred in 1966" was turned over to H.C. Gregory of the Harris County Morgue. This radiograph is not available for review. No fracture scars are observed on the distal left humerus or the proximal left radius and ulna. Instead, a very subtle well-healed fracture scar is observed on the distal left radius. Due to the fact that the elbow injury occurred approximately five years prior to death and the decedent was 11 years old at the time, it is possible that the fracture line is no longer visible.

#### Perimortem:

No perimortem injury is described in the ML73-3413 autopsy report. Due to taphonomic processes of burial and periodic submersion in water for 38 years,

perimortem injury to the skeleton cannot be reliably distinguished from postmortem damage.

#### Postmortem:

The maxillary dental arch was removed with an autopsy saw for identification purposes at the original examination. Crumbling of the fragile nasal bones, ethmoid, and vomer is observed. A small round defect in the superior right scapular blade is consistent with puncture of the delicate blade in an anatomically anterior to posterior direction. The elements are coated with residual quick-lime (noted at autopsy) as well as the precipitated mineral sheets described above. The cortical surfaces of the morphological features are somewhat eroded. A complete transverse fracture of left rib 9 occurred during cleaning of the elements for examination.

#### Pathology and Individualizing Characteristics

No pathological conditions are observed. The following individualizing characteristics are present: retained metopic suture of the frontal bone and incomplete fusion of the first cervical vertebra posterior rim.

#### Dentition

The mandible was not recovered in 1973 and is absent at this examination. All maxillary teeth were present in the dental arcade at recovery in 1973. Teeth 8–12 are absent postmortem at this examination but are documented in the original autopsy report and photographs. The dentition is relatively healthy and no reconstructions are observed. A Carabelli's cusp (accessory cusp that may develop on the mesiolingual cusp of the maxillary first molar) is observed on teeth 3 and 14. Tooth 7 is shovel-shaped (presence of lingual marginal ridges resulting in a concave lingual surface).

Dr. Paul G. Stimson notes caries on teeth 2–3 and 14–15 during his examination of the maxillary dentition in 1973. These caries are observed as pits within the grooves around the occlusal cusps. Dr. Stimson also notes chipping and excessive wear on tooth 9 but tooth 9 is now absent. See Dental Examination on page 4 of the ML73–3413 autopsy report.

#### Postmortem Interval

At the time of original skeletal recovery from a shallow sandy beach grave in August 1973, Billy Baulch had been missing since May 21, 1972 (14 months). The remains were coated with lime and wrapped in heavy plastic. The condition of the remains at recovery was described in the ML73-3413 autopsy report as, "skeletal remains...with

the flesh nearly completely deteriorated away." Photographs depict disarticulated elements, fully exposed bone, and minimal amounts of adherent tissue. Given the circumstances of deposition, the decomposition stage is consistent with a postmortem interval of one to two years.

#### Identification

ML73-3413 was identified in 1973 as Billy Gene Baulch, Jr. based on the following evidence.

- Recognition of the head hair by parents, Mr. and Mrs. Billy Gene Baulch, Sr.
- Recognition of the anterior teeth by Mr. and Mrs. Baulch, particularly the "pointed canines" and a chip in the occlusal surface of tooth 9.
- Review of an antemortem photo of Billy Baulch that shows the anterior teeth in comparison with the maxillary dental arcade of ML73-3413 and also with Dr. Paul Stimson's (forensic odontologist) dental chart and description
- Review of a radiograph of Billy Baulch's left elbow (no results documented)

DNA sampling and profile comparison were completed as a part of the current examination. Buccal swabs were obtained from Debra Baulch Hernandez, sister of Billy and Michael Baulch. The DNA profile obtained from the swabs was compared with both mitochondrial and nuclear DNA profiles obtained from the left innominate, one upper range lumbar vertebra, and the left fifth metatarsal of the ML73–3413 remains, and the cranium and ribs of ML73–3378. The following statistical conclusions were reported by UNT.

- It is 820 million times more likely that ML73-3413 is a sibling of Debra Sue Baulch Hernandez than if the decedent is unrelated to her.
- It is 10,000 times more likely that ML73-3378 (identified as Michael Baulch) is another biological sibling of Debra Sue Baulch Hernandez than if the decedent is unrelated to her.
- It is at least 379 times more likely that ML73-3413 and ML73-3378 are related as siblings than if they are unrelated.

The DNA profile comparisons are consistent with identification of ML73-3413 and ML73-3378 as Billy and Michael Baulch, respectively. ML73-3413 is identified as Billy and ML73-3378 is identified as Michael due to consistencies in disappearance dates and decomposition stages. Billy disappeared 14 months prior to the recovery of ML73-3413. The decomposition stage at recovery described above is consistent with that

postmortem interval. Michael disappeared on July 17, 1973, only three weeks prior to the recovery of ML73-3378 in an articulated and fleshed state.

#### Summary

The skeletal remains of ML73-3413 are estimated to represent a White male, 16-19 years of age and 5'2"-5'9" inches tall. ML73-3413 is identified as Billy Gene Baulch, Jr. through DNA profile comparison, development of a consistent biological profile, decomposition stage at recovery, and circumstantial evidence. The remains of Billy Baulch are commingled with skeletal elements representing a minimum of one additional individual. These elements have been examined and submitted to UNT for DNA analysis. With the exception of the commingling and observation of a well-healed fracture scar on the distal left ulna, the anthropological findings are consistent with the autopsy findings in the report filed on August 14, 1973. No perimortem skeletal trauma or pathological conditions are observed.



Sharon M. Derrick, Ph.D. Forensic Anthropologist

**MMDDYY** 

Reviewed by:

DRAFT

Jennifer C. Love, Ph.D., D-ABFA Forensic Anthropology Director

**MMDDYY** 

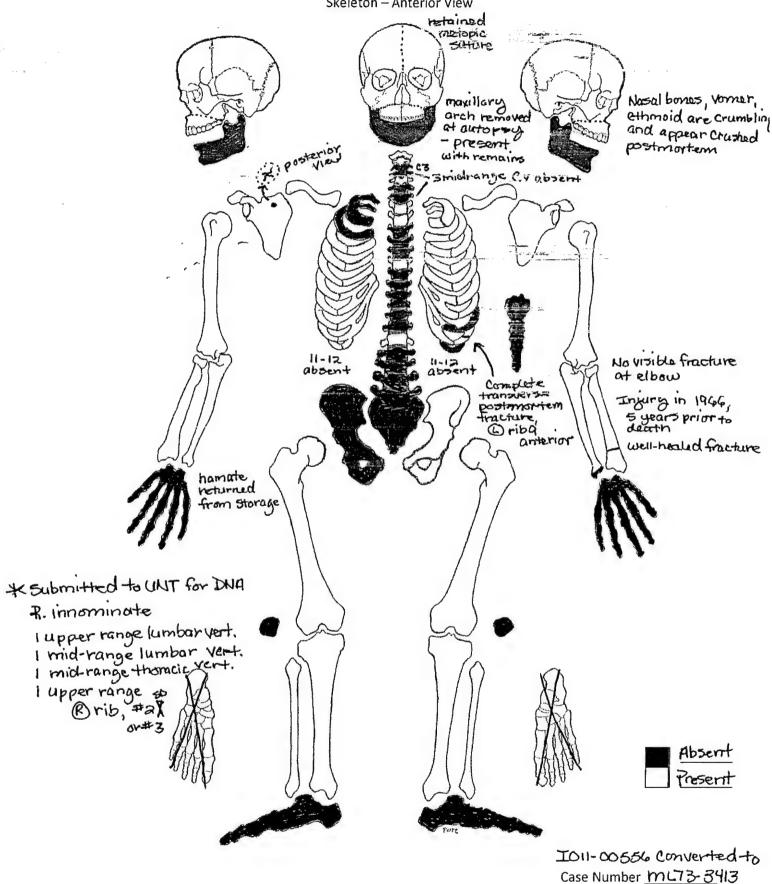


## Harris County Institute of Forensic Sciences Forensic Anthropology Division Data Sheets



- (IMI-(X)55%)	. 5001	No. of Lot
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Case # McT3-3413Anthropolog	gist S. Denick	
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Pathologist Jachimczyk Cour	nty Harnis	
. ***		
Scene Description		
Eden Sings Land	1 C	
Explimation from buried (aske	ct. Ground water Seepage	
Exhumation from buried Caske Woodlawn Cemoteria 2/8/2011	Order# 2010-83010	
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Condition of Remains	• ,	
Friable, muddy, moral depos	orts very wet soft	
	' 0	
Processing Procedure		
Elements were handwashed in a	solulater and air-dried	
on trays.		
D 17		
Personal Property		
None		
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Positively Identified (by) HCIFS/UNT DNA res	mique) DNA (mito + nuclear)	
Decedent Name Billy Geno Boulah -	Tie 1 114	
Decedent Name Billy Gene Baulch,	24. MULL 2 de 142102 Conscrit	STICH
Unidentified Checklist:	,	
	Photographs	
Dental Chart	✓ Skeletal Overview	
✓ Anthropologist	✓ Biological Profile	
	✓ Reconstruction	
<u>V</u> Odontologist	Trauma	
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Radiographs NIA, Identified Case	Dissemination NA Identified case	
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Dental - provincially dome by Dr. Strmso	IVICUIA	
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HCME Lab Archives	The data Databases + 14 - co	
ITOTILS DUOT I TOTILY CO	Update Databases WA-80	
	✓ Justice Tracks ✓	
	✓ Anthropology Logbook	

#### Harris County Medical Examiner's Office Forensic Anthropology Division Skeleton – Anterior View



2 of 14

IOII-00556 Converted to Case Number <u>ML73-3413</u> Analyst <u>S. Deanick</u> Date <u>2 [10]2011</u>

#### Harris County Institute of Forensic Sciences

Forensic Anthropology Division Fordisc Measurements

used left side measurements in FORDIC when possible

Date 3/11/2011

-CRANIAL MEASUREMENTS (Pages 52-60) Left Right 1. MAXIMUM LENGTH (g-op): 13. NASAL HEIGHT (n-ns): 48\* 2. MAXIMUM BREADTH (cu-au): 14. NASAL BREADTH (al-al): 23\* 3. BIZYGOMATIC BREADTH (zy-zy): 132 15. ORBITAL BREADTH (d-ec): 44 4. BASION-BREGMA (ba-b): 137 16. ORBITAL HEIGHT (OBH): 5. CRANIAL BASE LENGTH (ba-n): 17. BIORBITAL BR. (ec-ec): 6. BASION-PROSTHION L. (ba-pr): 99 \* 18. INTERORBITAL BR. (d-d): 7. MAX.-ALVEOLAR BR. (ecm-ecm): 19. FRONTAL CHORD (n-b): 62\* 107 8. MAX.-ALVEOLAR L. (pr-a(v): 20. PARIETAL CHORD (b-1): 9. BIAURICULAR BREADTH (ALB): \_ 21. OCCIPITAL CHORD (I-o): 94. 10. UPPER FACIAL HGT. (n-pr): 22. FORAMEN MAGNUM L. (ba-o): 11. MIN. FRONTAL BR. (ft-ft): 23. FORAMEN MAGNUM BR (FOB): 12. UPPER FACIAL BR. (fmt-fmt); 24. MASTOID LENGTH (MDH): Nomandible Left Right Left Right 25. CHIN HEIGHT (gn-id): 30. MIN. RAMUS BREADTH: 26. BODY HEIGHT at MENTAL FOR: 31. MAX. RAMUS BREADTH: 27. BODY THICKNESS at M. FOR: 32. MAX, RAMUS HEIGHT:\* 28. BIGONIAL DIAMETER (20-20): 33. MAND. LENGTH:\* 29. BICONDYLAR BR. (cdl-cdl): 34. MAND, ANGLE:\* \* Record only if manifoldemeter is used. -----POSTCRANIAL MEASUREMENTS (Pages 64-76)-----CLAVICLE: Epiph, P/A: Left Right INNOMINATE: Epiph. P/A: Right (not likely) Left 35. MAXIMUM LENGTH: 146 151 56. HEIGHT: 207 209 36. SAGITTAL DIAM, at MIDSH: 57. ILIAC BREADTH: 15 14 154 37. VERTICAL DIAM. at MIDSH: 58. PUBIS LENGTH: 10 79 59. ISCHIUM LENGTH: 78 SCAPULA: Epiph. P/A: Left Right -38. HEIGHT: 146 148 FEMUR: Epiph. P/A: Left Right 39. BREADTH: 60. MAXIMUM LENGTH: 101 103 431 434 61. BICONDYLAR LENGTH: 429 429 HUMERUS: Epiph. P/A: Left Right 62. EPICONDYLAR BREADTH: 81 20 315 40. MAXIMUM LENGTH: 313 63. MAX. DIAM. of HEAD: 47 41. EPICONDYLAR BREADTH: 64. A-P SUBTROCH. DIAMETER: 6 62 29 42. MAX. VERT. DIAM. of HEAD: 48 48 65. TRANSV. SUBTROCH. DIAM: 32 43. MAX. DIAM. at MIDSHAFT: 24 66. A-P DIAM. MIDSH: 26 44. MIN. DIAM. at MIDSHAFT: 67. TRANVS. DIAM. MIDSH: 28 90 68. CIRCUMFERENCE AT MIDSH: RADIUS: Epiph. P/A: Left Right . 45. MAXIMUM LENGTH: Open epiph TIBIA: Epiph. P/A: 243 Left Right 46. SAGITTAL DIAM, at MIDSH: 12 69. CONDYLO-MALLEOLAR LEN: 12 366 347 47. TRANSV. DIAM. at MIDSH: 70. MAX. PROX. EPIPH. BR: 160 16 TT 71. MAX. DIST. EPIPH, BR: 52 ULNA: Epiph. P/A: Left Right 72. MAX. DIAM. NUTRIENT FOR: 38 48. MAXIMUM LENGTH: no epiphy. 24 73. TRANSV. DIAM. NUTR. FOR: 24 49. DORSO-VOLAR DIAMETER: 74. CIRCUM. AT NUTR. FOR: 16 16 100 100 50. TRANSVERSE DIAMETER: 15 51. PHYSIOLOGICAL LENGTH: no epipty FIBULA: Epiph. P/A: 240 Left Right 52. MIN. CIRCUMFERENCE: 75. MAXIMUM LENGTH: 363 360 76. MAX. DIAM. at MIDSHAFT: 18 SACRUM: No. Segments: Absent CALCANEUS: Epiph. P/A: Absent Left 53. ANTERIOR HEIGHT: 54. ANTERIOR SURFACE BREADTH: 77. MAXIMUM LENGTH: 55. MAX. BREADTH (S-1) 78. MIDDLE BREADTH: Case Mumber ML73-3413 Analyst S. Derrick

3 of 14

\* = reconstructed

From	Total		Into	Group		Percen
ULNPHL	ULNTVD		ULNXLN			
TIBNET	TIBNEX		TIBPEB	TIBXLN	ULNCIR	ULNDVD
RADTVD	RADXLN		SCAPBR	SCAPHT	TIBCIR	TIBDEB
HUMKION	ILIABR		INNOHT	ISCHLN	PUBCLN	RADAPD
FIRMOM	FIBXLN		HUMEBR	HUMHDD	HUMMWD	HUMMXD
FEMHDD	FEMMAP		FEMMTV	FEMSAP	FEMSTV	FEMXLN
CLAAPD	CLAVRD		CLAXLN	FEMBLN	FEMCIR	FEMEBR
DF result	s using	39	variables	:		
	_					

 From Group	Total Number	BF	nto Group BM	WF	WM	Percent Correct
BF	18	14	1	3	0	77.8 %
BM	35	0	32	0	3	91.4 %
WF'	55	4	0	50	1	90.9 %
WM	102	3	6	0	93	91.2 %

TIBNFT

Total Correct: 189 out of 210 (90.0 %) \*\*\* CROSSVALIDATED \*\*\*

Multigroup Classification of Current Case

Group	Classified into	Distance from	Probabilit Posterior	ies Typ F	Typ Chi	Typ R
<b>WM</b>	* *WM* *	55.7	0.998	0.657	0.040	0.304 (71/103)
BM		68.2	0.002		0.003	0.057 (33/36)
BF		73.0	0.000		0.001	0.053 (18/19)
WF		78.7	0.000	0.913	0.000	0.018 (56/56)

Current Case is closest to WMs

Group Means BM WF WM 35 55 102 BF WM Current Case Chk 18 ----- 
 15
 +
 11.1
 13.8
 10.4
 12.8

 10
 9.7
 11.1
 9.3
 11.3

 146
 140.8
 159.5
 139.0
 156.8
 CLAAPD CLAAPD 15 CLAVRD 10 CLAXLN 146 FEMBLN 429 434.4 479.9 431.1 469.2 207 189.3 211.0 202.4 223.0 ISCHLN 78 77.5 88.9 81.8 91.0 75.0 76.0 85.3 82.7 11.4 13.0 10.4 12.9 13.3 16.0 13.7 16.6 235.2 266.9 227.8 252.9 PUBCLN 79 RADAPD 1.2 16 243 101 146 RADTVD RADXLN SCAPBR 94.1 111.1 95.8 108.0 SCAPHT 137.1 160.8 141.9 163.0 85.9 97.8 TIBCIR 100 86.4 100.5 45.4 51.8 46.5 52.2 22.9 26.6 22.1 25.5 P. 4 of 14 52 24 TIBDEB

mc74-3413 3. Derrick

FORDISC 3.	1 Analy	sis of	Current	Case			4/27/2011 11:06:12 AM	Page 2
TIBNFX	38	+	31.3	36.7	32.0	36.5		
TIBPEB	77		68.3	78.3	69.8	78.9		
TIBXLN	366		363.7	403.4	356.9	391.6		
ULNCIR	40	+	32.4	37.4	34.0	37.9		*
ULNDVD	16	+	12.6	15.7	12.0	15.4	All and the second desiration as a second se	عليم بدار
ULNPHL	240		224.2	253.8	216.8	239.8		
ULNTVD	15		13.4	15.9	13.3	16.3	v p 790a - A	Carren de la carren
ULNXLN	261		252.2	285.0	244.3	271.1		

Natural Log of Determinant = 79.9389

DF results using 5 Forward % selected (min: 1 max: 20, out of 39) variables: INNOHT RADXLN TIBPEB ILIABR SCAPHT

Perduac	**		to Group	Into	Total	From
 Correct	WM	 WF	BM	BF	Number	Group
88.9 %	1	 1	0	16	18	BF
94.3 %	1	0	33	1	35	BM
92.7 %	0	51	0	4	55	WF
84.3 %	86	3	10	3	102	WM

Total Correct: 186 out of 210 (88.6 %) \*\*\* CROSSVALIDATED \*\*\*

Multigroup Classification of Current Case

Group	Classified	Distance	Probabilit		·		
	into	from	Posterior	Typ F	Typ Chi	Typ R	
WM	**WM**	5.0	0.478	0.450	0.414	0.451 (56/103)	
BF		6.4	0.238	0.494	0.269	0.056 (17/19)	
BM		7.1	0.170	0.327	0.215	0.257 (26/36)	
WF		7.9	0.114	0.228	0.163	0.036 (53/56)	

Current Case is closest to WMs

				Group Me	eans	
Current	Case	Chk	BF 18	BM 35	WF 55	WM - 102
INNOHT RADXLN TIBPEB ILIABR SCAPHT	207 243 77 154 146		189.3 235.2 68.3 142.1 137.1	211.0 266.9 78.3 153.6 160.8	202.4 227.8 69.8 155.6 141.9	223.0 252.9 78.9 160.2 163.0

Natural Log of Determinant = 19.3565

FORDISC	3.1	Analysis	of	Current	Case	Cranial
						m

3/17/2011 9:55:06 AM

DF 1	cesults	using 17	variab	les:			1 4 1		
AUB	BBH	BNL	BPL	FRC	GOL	MAB	NLB	NLH	OBB
OBH	OCC	PAC	UFHT	WFB	XCB	ZYB			

		~	O		** 5	231		411		
Varial	bles	removed:	UFBR	MDH	MAL	DKB	EKB	FOL	FOB	

From Group	Total Number	Int AF	o Group AM	BF	ВМ	СНМ	GTM	PF	НМ	JF	JM	VM.	WF	WM	Percent Correct
AF	29	11	7	1	0	1	2	6	1	0			2		a 37.9 %
AM	51	3	33	0	1	4	2	li	i1	1	2		ő	0	Po
BF	70	2	0	38	4	Ō	4	8	3	3	1, P	4	2	1	1 64.7 %
BM	95	4	1	9	52	6	1	2	6	3	4	3	0		54.3 %
CHM	69	4	0	0	8	33	3	1	ž	1	1 11	5	0		54.7 %
GTM	68	7	3	3	2	0	41	5	2	ō	, 7	3	1	1.	47.8 %
HF	42	1	0	3	0	1	5	22	Õ	2	1 1	2	7	0	60.3 %
HM	166	13	7	2	16	15	25	15	30	1	17	2	- 4	0	52.4 %
JF	118	0	0	4	0	2	0	70	0	112	Τ,	9	2	14	18.1 %
JМ	168	5	10	ō	4	21	10	ğ	6	112	82	14	Ü	0	94.9 %
VM	48	0	0	Ō	õ	4	3	5	0	2	02		2	Ą	48.8 %
WF	160	1	o o	7	Õ	1	2	. 0	1	0	4 2	29	0	0	60.4 %
WM	261	6	2	1	8	5	0	3	1	0	1 4	3	122	15	76.3 %
						J	0	.3	1	U	14	2	19	200	76.6 %

Total Correct:

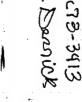
805 out of 1345 (59.9 %) \*\*\* CROSSVALIDATED \*\*\*

## Multigroup Classification of Current Case

Group	Classified into	Distance from	Probabilit Posterior	ies Typ F	Typ Chi	Typ R
WM	* *WM* *	20.2	0.774	0.345	0.265	0.406 (155/262
WF		24.5	0.090	0.209	0.107	0.131 (139/161
BM		25.7	0.049	0.255	0.080	0.147 (81/96)
AM		27.2	0.023	0.419	0.055	0.176 (42/52)
AF		27.3	0.022	0.785	0.054	0.069 (27/30)
CHM		28.3	0.013	0.257	0.041	0.029 (67/70)
MH		28.7	0.011	0.097	0.038	0.096 (150/167
JM		29.3	0.008	0.085	0.032	0.012 (166/169
JF		29.7	0.007	0.111	0.029	0.008 (119/119
$_{ m BF}$		31.9	0.002	0.163	0.015	0.014 (70/71)
$_{ m HF}$		33.5	0.001	0.349	0.010	0.023 (43/43)
GTM		36.4	0.000	0.097	0.004	0.023 (43/43)
VM		37.9	0.000	0.184	0.003	0.014 (89/89)

Current Case is closest to WMs

Current	Case	Chk	AF 29	AM 51	BF 70	BM 95	CHM 69	GTM 68	HF 42	нм 166	Group Me JF 118	JM 168	VM 48	WF 160	WM
AUB BBH	119 137		125.6 129.6	132.1 133.4	115.6 131.2	120.7	123.9 139.7	123.7 133.2	119.0	124 1 136.5	112	125.7 138.8	2.8	116	111,2 141,9



Page 2

FORDISC	3.1 2	\nalysis	of	Current	Case			3	/17/203	11 9:55	:06 AM				
BNL	103		99.	9 103.0	98.3	104.4	100.3	98.5	95.6	100.8	95.2	101.5	97.6	99.2	106.3
BPL	99		96.	7 100.1	98.8	104.4	97.1	97.9	93.0	98.7	94.2	97.7	95.4	92.2	98.0
FRC	107		107.	5 110.8	107.8	112.6	113.2	106.5	106.4	110.9	107.1	112.6	112.1	109.2	114.8
GOL	185		177.	3 180.1	178.0	186.8	181.2	173.2	171.2	178.0	171.6	180.1	172.4	177.5	187.9
MAB	62		62.	8 66.2	62.5	66.2	65.4	64.5	62.6	65.4	61.6	65.5	55.4	58.0	61.7
NLB	23		25.		25.0	26.3	25.9	25.5	24.0	24.9	24.8	25.1	26.2	22.3	23.7
NLH	48	-	51.	5 53.8	48.1	52.4	52.3	51.8	49.3	52.1	48.2	52.6	53.1	48.9	52.9
OBB	44	+	40.		38.4	40.6	38.8	38.9	38.8	39.9	38.1	39.2	38.4	39.1	41.2
OBH	30	-	35.		34.4	35.1	34.1	36.1	35.5	35.3	33.8	34.7	33.8	33.2	33.8
occ	94		93.	7 93.9	97.3	98.7	98.2	95.6	96.2	97.5	96.8	101.5	98.4	97.8	100.7
PAC	121	+	107.		112.6	117.0	115.1	112.3	108.7	111.4	108.5	111.3	110.4	112.8	118.3
UFHT	63	-	70.	8 73.4	66.7	73.0	72.1	71.5	67.6	73.7	65.8	71.2	71.5	67.6	73.9
WFB	97		93.		93.2	96.0	92.5	92.9	92.2	94.0	90.0	94.3	94.7	93.4	96.9
XCB	135		137.		132.7	135.4	139.2	136.4	135.4	138.2	136.3	141.3	140.5	135.3	140.3
ZYB	132		131.	B 141.2	121.9	130.5	133.0	131.5	123.7	131.1	125.4	134.2	130.0	120.2	129.6

Natural Log of Determinant = 42.2726

m\_73-3413

FORDISC 3.1 Analysis of Current Case 4/26/2011 1:20:30 PM DF results using (11) Forward % selected (min: 1 max: 20, out of 16) variables:

GOL BBH NLB BPL OBH WFB NLH PAC

Variables removed: UFBR MDH MAL DKB EKB FOL FOB

From Group	Total Number	AM	Into Group BM	CHM	GTM	НМ	JM	VM	, WM	Percent
AM	51	34	2	4	5	С	3	2	1	66.7 %
BM	96	2	64	2	6	9	1	2	7	_
CHM	69	1	8	35	4	** **	10	2	3	66.7 %
GTM	68	4	1	0	52	8	0	2	. 3	50.7 %
MH	172	5	20	21	40	30	22	15	3 O	76.5 %
JM	168	22	8	24	6	19	71		19	17.4 %
VM	48	0	O.	4	3	23	5	14	4	42.3 %
WM	263	1	17	9	1	12	11	33 8	1. 204	68.8 % 77.6 %

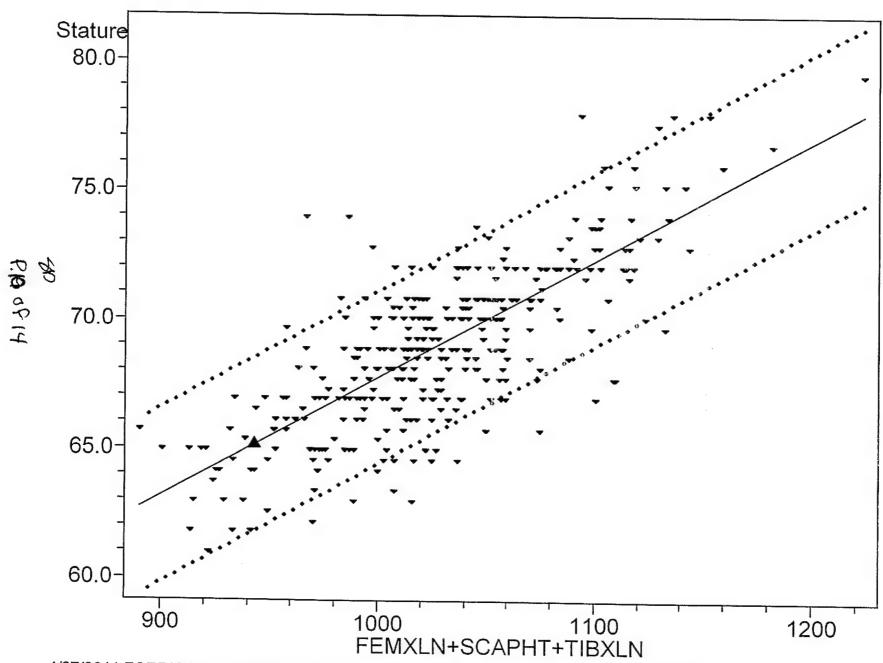
Total Correct: 523 out of 935 (55.9 %) \*\*\* CROSSVALIDATED \*\*\*

## Multigroup Classification of Current Case

Group	Classified into	Distance from	Probabilit Posterior	ies Typ F	Typ Chi	Тур R
WM CHM JM HM BM AM GTM VM	**WM**	8.8 12.6 12.8 13.2 13.4 14.7 18.4	0.645 0.096 0.086 0.070 0.062 0.033 0.005 0.003	0.677 0.492 0.376 0.346 0.385 0.425 0.196 0.229	0.645 0.323 0.308 0.280 0.265 0.197 0.072 0.053	0.635 (96/264) 0.130 (60/70) 0.262 (124/169) 0.326 (116/173) 0.385 (59/97) 0.255 (38/52) 0.044 (65/69) 0.042 (46/49)

Current Case is closest to WMs

Current	Case	Chk	AM 51	BM 96	CHM 69	GTM 68	Group HM 172	Means JM 168	VM 48	WM 263
GOL ZYB BBH NLB BNL OCC	185 132 137 23 103 94	-	180.1 141.2 133.4 26.1 103.0 93.9	186.8 130.5 137.3 26.3 104.4 98.6	181.2 133.0 139.7 25.9 100.3 98.2	173.2 131.5 133.2 25.5 98.5 95.6	178.0 131.2 136.5 24.9 100.7 97.7	180.1 134.2 138.8 25.1 101.5	172.4 130.0 137.8 26.2 97.6 98.4	187.9 129.6 141.9 23.7 106.3 100.8



4/27/2011 FORDISC 3.1: Estimated Stature = 62.0 to 68.6 inches (90% prediction interval)

## Harris County Institute of Forensic Sciences Forensic Anthropology Division

#### Estimation of Race

(Gill and Rhine 1990, Base 1987, Burns 1999)

ESTIMATION OF RACE White Asian-Native . += NOTICABLE, ++ = PROMINENT
American Admixture

CAUCASIAN	AFRICAN-AMERICAN	ASIAN/NATIVE AMERICAN
Skull Shape: High, Narrow	Low w/Postbregmatic Depression	+ Low, Sloping
Skull Height: Rounded, Narrow	Low and Flat	Rounded, High
Face Shape:Narrow, Long	Prognathic	+ Broad, Flat
Eye Orbite: Slanting Square, Large	Laterally Low and Small	Square
Zygomatics: Small- Retreating Malars	Small, Retreating Malars	Robust and Flaring
Zygomaxillary Suture: Jagged, S-Shaped	Curved or S-Shaped	+ Angled
Nasal Sill:Sharp, Protruding	Guttered	Sharp
Nasal Aperture:  H Narrow	Wide	Medium
Nasal Spine: Not presentLarge, Long	Little or None	Medium, Tilted
Nasal Bones:  High, Arched	Low, Flat Wide Arch	Low "Tented" Arched
Alveolar Prognathism:	Pronounced	Reduced
Palatal Shape: Parabolic, Narrow	Hyperbolic	++ Elliptic
Palatal Suture: Z-Shaped	Arched	+ Straight
Chin: Not presentSquare, Projecting	Retreating	Blunt
Dentition: Crowded, Impacted M3	Crenulated Molars	+ Not Crowded
Bite: mandible abountOverbite	Overbite, Prognathic	Edge-to-Edge
Femur Curvature: Arched (L)	Flat	<u>+</u> Little

Case Number ML73.3413
Analyst S. Derrick
Date 314 2011

## Harris County Institute of Forensic Sciences Forensic Anthropology Division

Estimation of Sex

(Buiks	tra and Ubelaker 1994, Ubelaker 1989, Bass 1987)	Young individual
,	FEMALE -1 0	MALE +1 +2
CRANIAL	6. /	/ /
Supra-Orbital Margin		and a second
Supra-Orbital Ridge	<u> </u>	<i>_ _ _</i>
Mastoid Process		T-T-
Zygomatic Arch Extension		1/2 1/2
Nuchal Crest		
Mental Eminence Not present		
Mandibular Ramus Not preser	t g	57-57-
Temporalis Attachment	- 15-	15
POSTCRANIAL		100
Sciatic Notch		2 _ 2+2
(Phenice 1969) Ventral Arc	☐ Presence	Absence
Subpubic Concavity	☐ Concave	Convex
Ischiopubic Concavity	□ Presence	Absence 10
Pubic Length	C D Long	Short Short
Sacral Attachment	Elevated	Flat
Sacrum Not present	Straight	Curved
(Stewart 1979) Femoral Head D	Diameter <42.5mm 43-46mn	n (>47.5mm)
Humeral Head [	Diameter <42.7 43-46mn	
	12 <sub>of</sub> 14	Case Number ML73-3413 Analyst S. Bennick Date 3 14 201

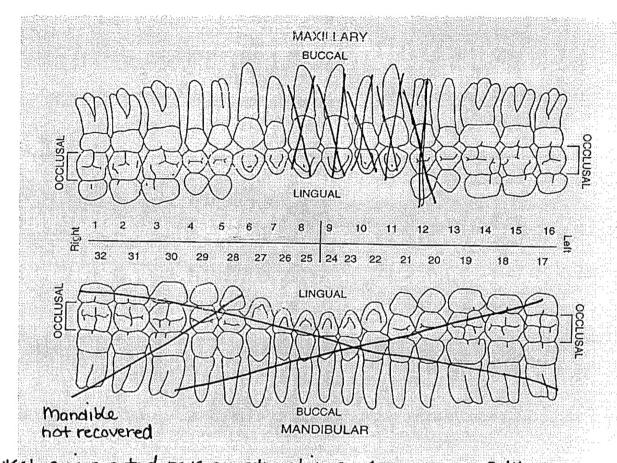
## Harris County Institute of Forensic Sciences Forensic Anthropology Division Age Estimation

Probably	
POSTCRANIAL: Does not belong to	
Pubic Symphysis: RIGHT MC73-3473	
95	28 28
MALE (Suchey-Brooks 1990, Suchey and Katz 1986)  MALE (Suchey-Brooks 1990, Suchey and Katz 1986)  Symphysead-face () innom. Slightly more developed than right innominate that does not make the performance of upper/lowin delim that the performance of upper/lowin delim the performance of upper/lowin delim that the performance of upper/lowin delim that the performance of upper/lowin delim the performance of upper/lowin del	3.D=2.1 of 9.70
Sternal Rib End Changes Rib#: 4 Phase: D la Rib#: Phase:	
(Iscan et al 1984, 1985, 1986)  (Iscan et al 1984, 1985, 1986) (Iscan et al 1984, 1985, 1986) (Iscan et al 1984, 1985, 1986)	im deve
Epiphyseal Closure (1 = No Union, 2 = Partial Union, 3 = Complete Union) (Moore-Jansen et al 1994 page 8-9, Webb and Suchey 1985) Metopic surfure retained, ribs=heads not fur one in pro	sed eess
38) Basilar Suture 2 47) Lumbar Vert Rim 2 56) Proximal Radius 3 17-25	بال
39) Medial Clavicle <u>6</u> 48) Sacrum (S1/2) <u>7</u> 57) distal Radius <u>8</u> 49) Sacrum (S2/3) <b>7</b> N/A 58) Distal Ulna <b>2</b>	
40) Atlas – Anterior <u>3</u> 49) Sacrum (S2/3) 58) Distal Ulna <u>2</u> 41) Atlas – Posterior <u>2</u> 50) Sacrum (S3/4) 59) Distal Ulna <u>3</u> Fox vna!	
42) Axis – Anterior 3 (L) 51) Innom. Prim. Elem 3 (60) Femur Head 2	
43) Axis – Posterior $\frac{2}{3}$ 50 52) Ischial Tuberosity $\frac{2}{3}$ 61) G. Trochanter $\frac{3}{3}$	
44) Cervical Vert Rim 3 53) Anterior Illiac Crest 62) Distal Femur 2 54) Proximal Humerus 2 63) Proximal Tibia 2	
46) LS Body – Arch NA	
iliac Creat (2)	
CRANIAL: The decedent is too young for accuracy w/this method.	
Charman Suture Closure (Baker 1984, Mann et al 1987, <eindi 1924,="" 1925)<="" 1985,="" and="" lovejoy="" lyon="" td="" todd=""><td></td></eindi>	
(0=open, 1=Minimal Closure, 2=Significant Closure, 3=Complete Obliteration/Buikstra and Ubelaker 1994 pages 32-34).	
1) 0 10) 0	
2) 11) 1 a	
3) $\underline{I}$ 12) $\underline{O}$ (6) (6) (7) (7) (7) (8) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
7) - 16) 0	
8) <u>  17)                                   </u>	
Vault Score (Sites 1-7) Lateral Score (Sites 6-10)	
Other Indicators of Age: Little to no wear on teeth. Third molar roots open, 3/4 developed	l
	•
Ribhando-fusing to neck (17-25 years), one only (16405)	
Case Number ML73-3413 Analyst S Doggic k	

13 of 14

Analyst S. Dennick
Date 3 14 2011

### Harris County Institute of Forensic Sciences Forensic Anthropology Division Dentition Chart - Permanent



\* No caries noted, no reconstructions, cusp wear on 3,14 Smith, 1991 1. erupting 3/4, open roots 16.4 yrs 17. 2. pit in occlusal burcal garage 18. 19. \_\_\_\_\_ 20. \_\_\_\_\_ pits in occlusal mesial tolistal growers. root complete, 11+ yrs 80 7. Shovel, root complete 83+yrs 23. 8. 24. 9. 25. 10. 26. \_\_\_\_\_27. 12. 28. 14. Carabelli & Cusp , pitting in occ. grows 30. 16. erupting, 3/4, open roots 16.4 yrs 32.

\* Dr. Stimon notes occlusal caries on 23, 14, 15 must be very subtle, In grooves? - Observed as pits Case Number ML73-3413
Analyst S. Aunick
Date 3/14/2011